TeleEye iii+ VXB Series

Video Recording Transmitter

VXB-4001
VXB-8002
VXB-16004 / VXB-16008

Installation Guide

TeleEye
www.TeleEye.com

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Version 1.1

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SECTION 1

INTRODUCTION

The revolutionary ***Tele*Eye *III+* VXB Series Video Recording Transmitter *(Tele*Eye *III+* VXB*)*** is an all-in-one video recording transmitter with dual composite video outputs and removable hard disk for standalone and remote operations.

The ***Tele*Eye *III+* VXB** supports triplex operation in which video monitoring, recording and playback can be carried out simultaneously. Recording frame rate up to 100/120 fps can be achieved. The highest recording resolution is 640x480 pixels. Recording operation can be activated by manual, scheduled and event-driven modes.

The powerful ***Tele*Eye *III+* VXB** works on broadband Internet economically and gives you exceptionally well real time video transmission at speed up to 25/30 fps. Its "***sure*LINK**" technology allows low cost dynamic IP broadband Internet connection.

Powered by its proprietary video compression technology and remote accessibility, ***Tele*Eye *III+* VXB** provides simultaneous remote monitoring, recording and playback. Users can keep track of live video and play back recorded video from any remote locations.

The ***Tele*Eye *III+* VXB** is designed to comply with the recognized British Code of Practice BS 8418:2003 for Detector Activated CCTV Systems. When partnered with ***Tele*Eye CMS01** software, the system becomes a professional video alarm verification solution with comprehensive visual management and reporting capabilities required for the highest level of police response.

***Tele*Eye *III+* VXB** is not only designed for connectivity but a total solution for video monitoring and digital recording!

Features

- Video recording with rate up to 100/120 fps
- Standalone operations
- Dual composite video outputs
- OSD menus
- Flexible connections – Internet, LAN, PSTN, ISDN, ADSL cable modem, mobile network, etc.
- Built-in web server
- Support static and dynamic IP
- Real time video transmission
  - Up to 30fps over LAN for NTSC
  - Up to 25fps over LAN for PAL
  - Up to 20fps on PSTN
- Excellent picture resolution up to 640 x 480 pixels
- 4, 8, & 16 video & alarm inputs
- 4 additional detection inputs ***(BS8418 Support)***
- Tamper & power failure detection ***(BS8418 Support)***
- Web-based video monitoring
- Mobile video on Pocket PC
- Triplex Operation: Simultaneous video monitoring, recording & playback
- Video motion detection
- Event-driven recording
- Programmable video recording
- Data retention ***(BS8418 Support)***
- Auto alarm dial-back
- Connection Authentication ***(BS8418 Support)***
- Pre- & post-alarm video recording
- Compatibility with popular telemetry systems
- Single- & multi-site monitoring
- Audio transmission with CAMERIO *Tele*EAR
- Video back-up function
- 4 relay switches

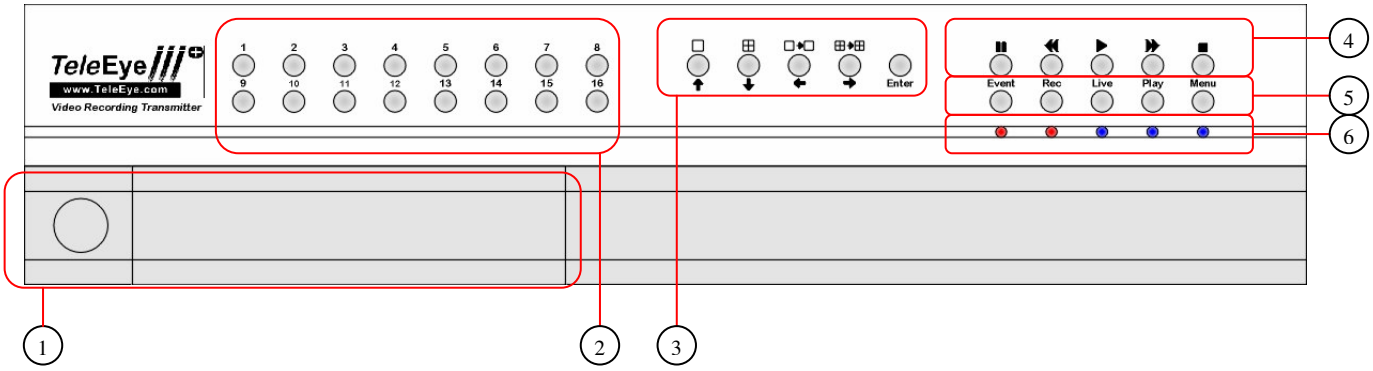
Introduction

Removing the Package

After removing the package, make sure you have the following items:

- ***Tele*Eye *III+* VXB** transmitter
- Software CD
- Hard disk cartridge (with or without hard disk)
- Hard disk cartridge Key x 2
- AC to DC Power Adapter with cord
- Modem cable with 9-pin RS232 header
- 37-pin alarm header
- Resistors (1.2kΩ x 20, 6kΩ)
- Warranty card
- Serial number and registration code card

Front Panel Descriptions



1. Removable Hard Disk

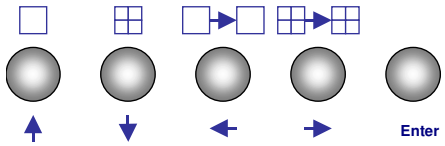
- All models built with a removable hard disk tray
- Key lock is provided to lock the hard disk from un-authorized removing
- Key is used to enable/disable the power supply to the system

2. Live camera control buttons

- **VXB–4001**: 1 – 4
- **VXB–8002**: 1 – 8
- **VXB–16004 / VXB–16008**: 1 – 16
- Camera control buttons allow user to fast switch to a specific camera for local monitoring
- The buttons are also used for password input

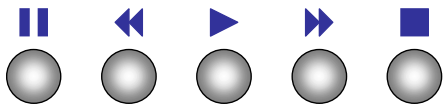
Introduction

3. Screen mode control / Menu control buttons



- There are 2 modes for these buttons, either in live mode or menu control mode
- In live mode, the buttons are used to change video display mode in full screen, quad screen, full screen page mode and quad screen page mode
- In menu control mode, the buttons are used as “up”, “down”, “left”, “right” and “Enter” control

4. Local Playback control buttons



- These 5 buttons are used for recording playback control only
- The functions are pause, fast backward, play, fast forward, and stop

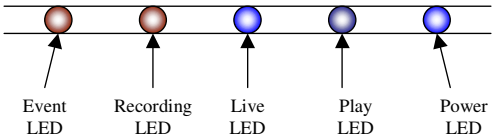
Introduction

5. Mode control buttons

- These 5 buttons are used for switching between the control modes
- Event button: fast switch to event menu at any time (see Section 4)
- Rec button: enable/disable normal recording at any time
- Live button: view live video at any time
- Play button: fast switch to playback log menu (see Section 4)
- Menu button: switch to menu for system settings, recording settings and event settings etc. (see Section 4)

6. Notification LEDs

There are 5 notification LEDs, 2 red color and 3 blue color from left to right



Event LED: this LED will blink when event is triggered

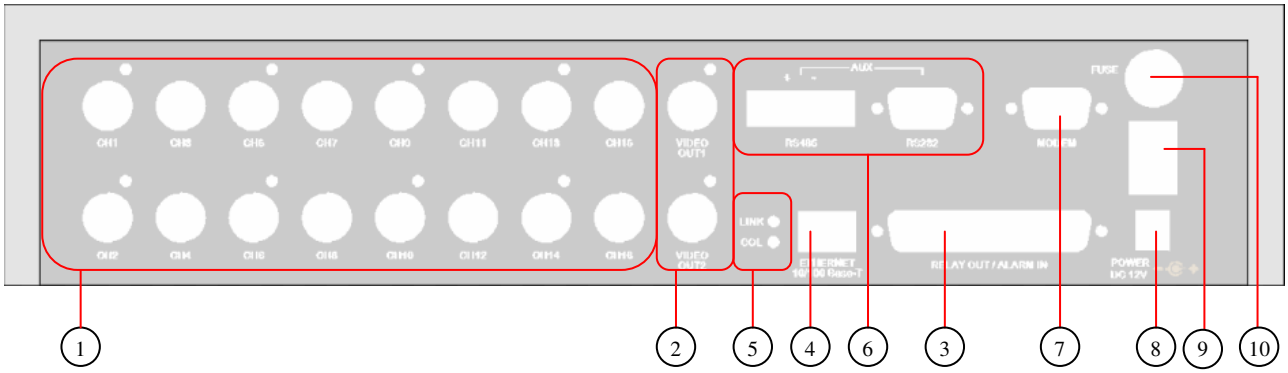
Recording LED: this LED will turn ON when ***TeleEye III+* VXB** is doing recording

Live LED: this LED is ON indicating that video from the video out connectors are live videos. During recording video playback, this LED turns OFF

Play LED: this LED will be ON when user press the **[Play]** button, it will turn OFF when the system is in live mode

Power LED: this LED will be ON when hard disk rack key is locked and power switch is turned on. This LED will blink during system initiation, and remains ON after initiation.

Rear Panel Descriptions



1. VIDEO INPUT Connectors

- **VXB–4001**: CH1 – CH4
- **VXB–8002**: CH1 – CH8
- **VXB–16004 / VXB–16008**: CH1 – CH16
- Standard BNC connectors for color and black and white video sources
- A composite video signal should be supplied to these connectors

2. VIDEO OUTPUT Connectors

- VIDEO OUT1 and VIDEO OUT2
- A composite video signal with 1V p-p is output from these connectors
- PAL/CCIR format with 625 lines, 50 fields per second
- NTSC/EIA format with 525 lines, 60 fields per second

3. RELAY OUT / ALARM IN Port

- 4 control switches are available for all models.
- **VXB–4001**: 4 alarm ports
- **VXB–8002**: 8 alarm ports
- **VXB–16004 / VXB–16008**: 16 alarm ports

Introduction

- All alarm ports are NC/NO type input

- Alarm port 1 can be configured as arm/disarm input

4. Ethernet Socket (10/100 Base-T)

- This socket is used for connecting ***Tele*Eye *III+* VXB** to the corporate computer network (e.g. LAN)

5. Collision & Link LED Status

COL LED: when on, indicates that collision is occurring on the network.

LINK LED: when on, indicates that ***Tele*Eye *III+* VXB** is connecting to the network and ready to function.

6. AUX Port

- A DB-9 female connector of DCE format, capable of connecting to DTE such as remote Pan/Tilt/Zoom operation

- Used for configuring the ***Tele*Eye *III+* VXB** 's internal settings

Pin number	Definition	Direction
1	CD	Output
2	RXD	Output
3	TXD	Input
4	DTR	Input
5	GND	——
6	DSR	Output
7	RTS	Input
8	CTS	Output
9	N/A	

7. MODEM Port

- A DB-9 male connector of DTE format, capable for connecting to DCE such as modem, ISDN terminal adaptor

Pin number	Definition	Direction
1	CD	Input
2	RXD	Input
3	TXD	Output
4	DTR	Output
5	GND	——
6	DSR	Input
7	RTS	Output
8	CTS	Input
9	N/A	

8. Power Jack

- A 2.1mm D.C. power jack for the connection to the power supply (12V D.C.)

9. Switch

- A power switch to switch on or off the ***Tele*Eye *III+* VXB** transmitter

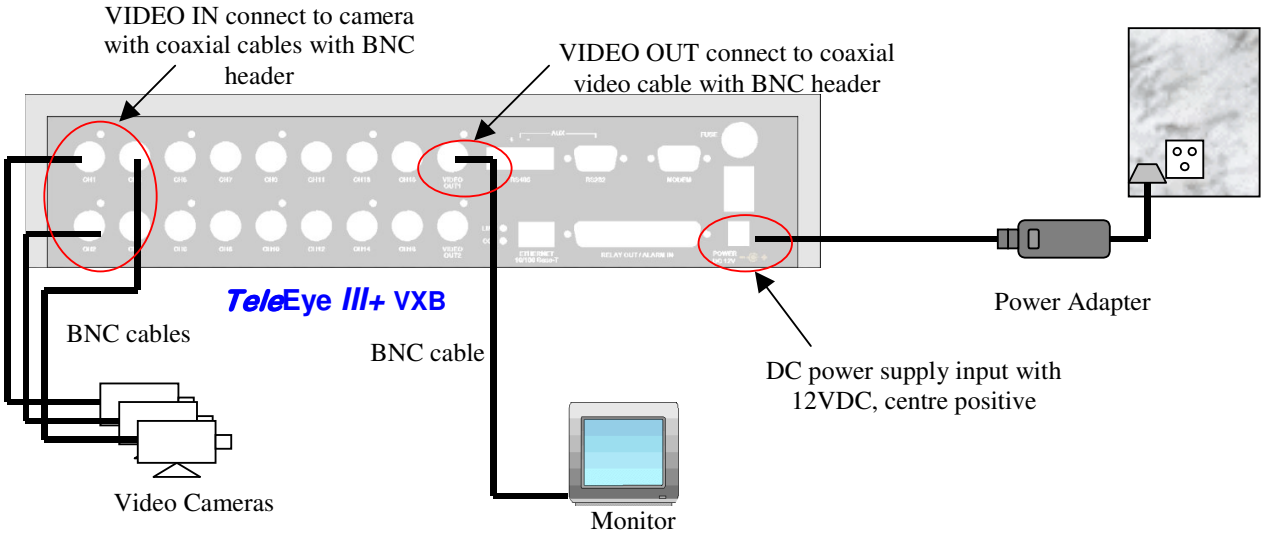
10. Fuse

- A 5A fuse to protect the ***Tele*Eye *III+* VXB** transmitter

SECTION 2

INSTALLATION OF *Tele*Eye *III+* VXB FOR LOCAL MONITORING

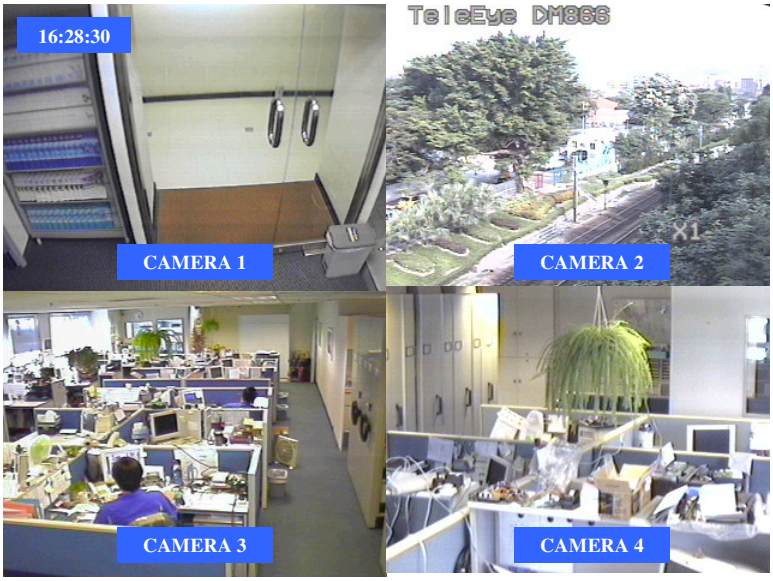
Install *Tele*Eye *III+* VXB for Local Video Display


VIDEO IN connect to camera with coaxial cables with BNC header
VIDEO OUT connect to coaxial video cable with BNC header
TeleEye III+ VXB
BNC cables
BNC cable
Video Cameras
Monitor
Power Adapter
DC power supply input with 12VDC, centre positive

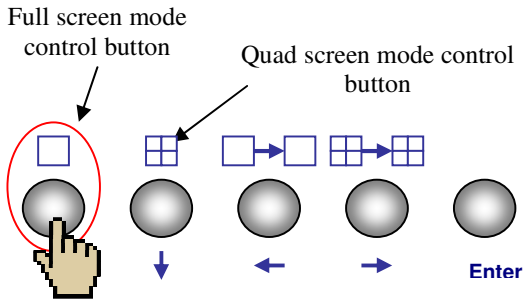
Procedures:

1. Insert the hard disk cartridge into the hard disk tray of ***Tele*Eye *III+* VXB**
2. Using the key provided to lock the hard disk cartridge
3. Connect video cameras to input video channels with BNC cable
4. Connect the VIDEO OUT1 to a monitor using BNC cable
5. Plug the DC supply to the power jack from the power adapter

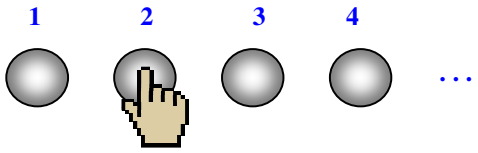
6. Switch on the ***TeleEye III+* VXB** and you will see the live video on the monitor. For the first time you use ***TeleEye III+* VXB**, the live display mode is in quad mode, which means you will see four cameras on the screen at the same time



7. Press the **[full screen mode control]** button to switch to the full screen mode. You can press the **[quad screen mode control]** button again to switch back to quad mode

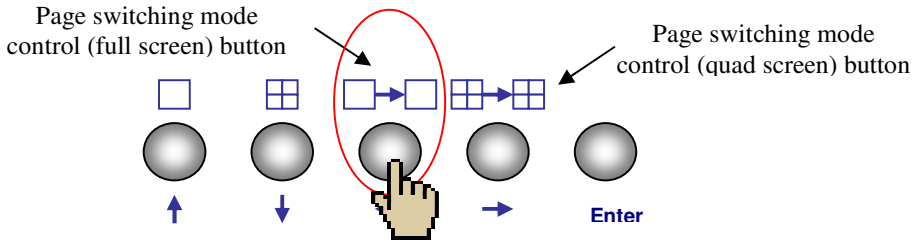


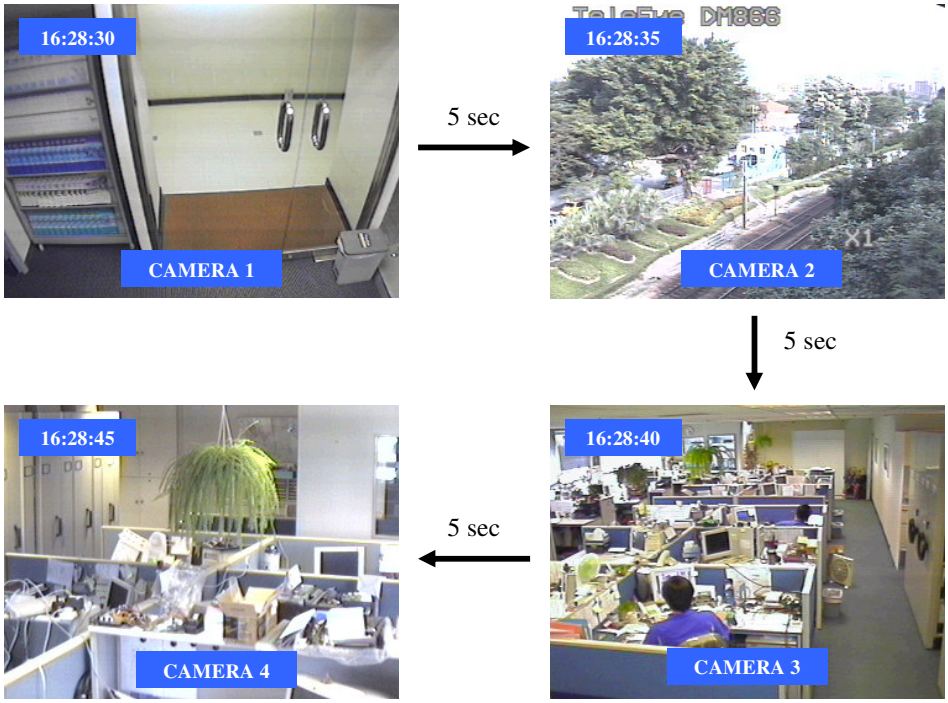
8. Press the **[live camera control]** button to switch to a different camera



Installation of *TeleEye III+* VXB for Local Monitoring

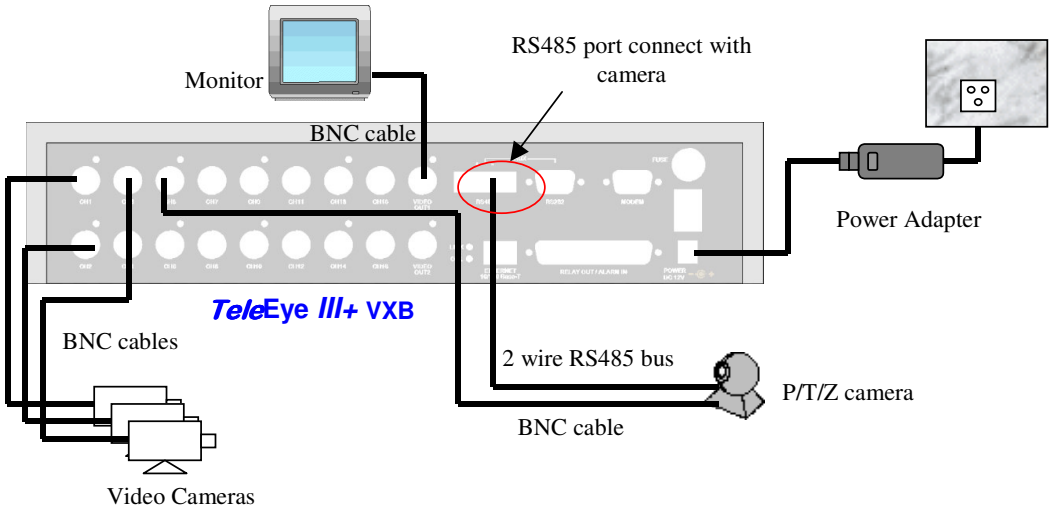
9. Press the **[page switching mode control]** button to view all cameras sequentially





Install *TeleEye III+* VXB with Telemetry Control

As ***TeleEye III+* VXB** built with a RS485 port, you can connect this port to Pan/Tilt/Zoom cameras. The connection diagram is shown below.

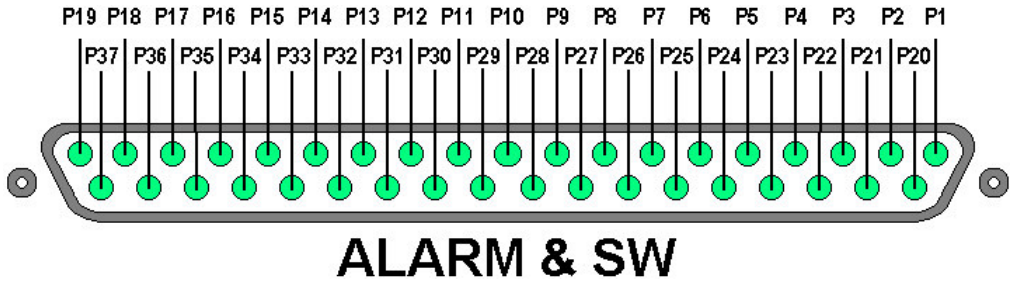


Note: RS485 and RS232 AUX port are shared port in ***TeleEye III+* VXB**. Only connect to one port at a time. Connecting both ports at the same time will cause both ports malfunction.

Installation of *TeleEye III+* VXB for Local Monitoring

Install *TeleEye III+* VXB with Alarm Sensors and Relay Control Port

***TeleEye III+* VXB** supports up to 16 alarm ports for connecting with alarm sensors, and 4 relay ports for remote/local controls. The definitions of alarm and relay control port are shown in the following diagram.



For **VXB-4001**:

Pin 1	ALARM 1	Pin 20	GND
Pin 2	ALARM 2	Pin 21	GND
Pin 3	ALARM 3	Pin 22	GND
Pin 4	ALARM 4	Pin 23	GND
Pin 5	N/C	Pin 24	GND
Pin 6	N/C	Pin 25	GND
Pin 7	N/C	Pin 26	GND
Pin 8	N/C	Pin 27	GND
Pin 9	N/C	Pin 28	GND
Pin 10	N/C	Pin 29	GND
Pin 11	N/C	Pin 30	GND
Pin 12	N/C	Pin 31	GND
Pin 13	N/C	Pin 32	N/C
Pin 14	N/C	Pin 33	N/C
Pin 15	RELAY 0a	Pin 34	RELAY 0b
Pin 16	RELAY 1a	Pin 35	RELAY 1b
Pin 17	RELAY 2a	Pin 36	RELAY 2b
Pin 18	RELAY 3a	Pin 37	RELAY 3b
Pin 19	N/C		

For **VXB-8002**:

Pin 1	ALARM 1	Pin 20	GND
Pin 2	ALARM 2	Pin 21	GND
Pin 3	ALARM 3	Pin 22	GND
Pin 4	ALARM 4	Pin 23	GND
Pin 5	ALARM 5	Pin 24	GND
Pin 6	ALARM 6	Pin 25	GND
Pin 7	ALARM 7	Pin 26	GND
Pin 8	ALARM 8	Pin 27	GND
Pin 9	N/C	Pin 28	GND

Installation of *TeleEye III+* VXB for Local Monitoring

Pin 10	N/C	Pin 29	GND
Pin 11	N/C	Pin 30	GND
Pin 12	N/C	Pin 31	GND
Pin 13	N/C	Pin 32	N/C
Pin 14	N/C	Pin 33	N/C
Pin 15	RELAY 0a	Pin 34	RELAY 0b
Pin 16	RELAY 1a	Pin 35	RELAY 1b
Pin 17	RELAY 2a	Pin 36	RELAY 2b
Pin 18	RELAY 3a	Pin 37	RELAY 3b
Pin 19	N/C		

For **VXB-16004 / VXB-16008**:

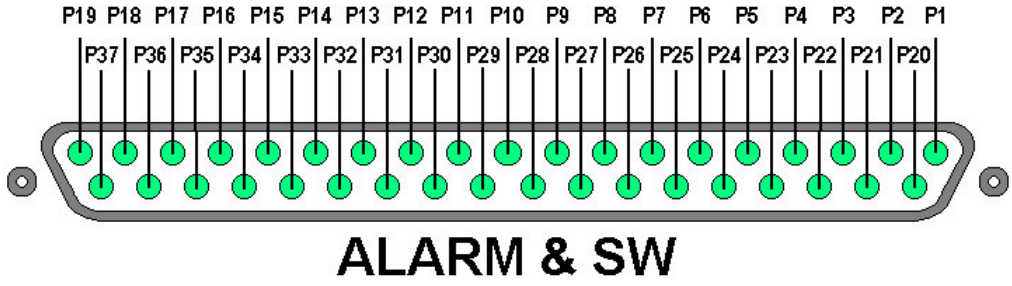
Pin 1	ALARM 1	Pin 20	GND
Pin 2	ALARM 2	Pin 21	GND
Pin 3	ALARM 3	Pin 22	GND
Pin 4	ALARM 4	Pin 23	GND
Pin 5	ALARM 5	Pin 24	GND
Pin 6	ALARM 6	Pin 25	GND
Pin 7	ALARM 7	Pin 26	GND
Pin 8	ALARM 8	Pin 27	GND
Pin 9	ALARM 9	Pin 28	GND
Pin 10	ALARM 10	Pin 29	GND
Pin 11	ALARM 11	Pin 30	GND
Pin 12	ALARM 12	Pin 31	GND
Pin 13	ALARM 13	Pin 32	ALARM 14
Pin 14	ALARM 15	Pin 33	ALARM 16
Pin 15	RELAY 0a	Pin 34	RELAY 0b
Pin 16	RELAY 1a	Pin 35	RELAY 1b
Pin 17	RELAY 2a	Pin 36	RELAY 2b
Pin 18	RELAY 3a	Pin 37	RELAY 3b
Pin 19	N/C		

Installation of *Tele*Eye *III+* VXB for Local Monitoring

Support BS8418

Install *Tele*Eye *III+* VXB with Alarm Sensors and Relay Control Port

***Tele*Eye *III+* VXB** supports up to 16 alarm ports with tamper detection for connecting with alarm sensors, 4 special input sensors and 4 relay ports for remote/local controls. The definitions of alarm and relay control port are shown in the following diagram.



For **VXB-4001**:

Pin 1	ALARM 1	Pin 20	GND
Pin 2	ALARM 2	Pin 21	GND
Pin 3	ALARM 3	Pin 22	GND
Pin 4	ALARM 4	Pin 23	GND
Pin 5	N/C	Pin 24	GND
Pin 6	N/C	Pin 25	GND
Pin 7	N/C	Pin 26	GND
Pin 8	N/C	Pin 27	GND
Pin 9	N/C	Pin 28	ARM/DISARM
Pin 10	N/C	Pin 29	SECURITY SWITCH
Pin 11	N/C	Pin 30	POWER FAILURE
Pin 12	N/C	Pin 31	SYSTEM TAMPER
Pin 13	N/C	Pin 32	N/C
Pin 14	N/C	Pin 33	N/C
Pin 15	RELAY 0a	Pin 34	RELAY 0b
Pin 16	RELAY 1a	Pin 35	RELAY 1b
Pin 17	RELAY 2a	Pin 36	RELAY 2b
Pin 18	RELAY 3a	Pin 37	RELAY 3b
Pin 19	N/C		

For **VXB-8002**:

Pin 1	ALARM 1	Pin 20	GND
Pin 2	ALARM 2	Pin 21	GND
Pin 3	ALARM 3	Pin 22	GND
Pin 4	ALARM 4	Pin 23	GND
Pin 5	ALARM 5	Pin 24	GND

Installation of *Tele*Eye *III+* VXB for Local Monitoring *(Support BS8418)*

Pin 6	ALARM 6	Pin 25	GND
Pin 7	ALARM 7	Pin 26	GND
Pin 8	ALARM 8	Pin 27	GND
Pin 9	N/C	Pin 28	ARM/DISARM
Pin 10	N/C	Pin 29	SECURITY SWITCH
Pin 11	N/C	Pin 30	POWER FAILURE
Pin 12	N/C	Pin 31	SYSTEM TAMPER
Pin 13	N/C	Pin 32	N/C
Pin 14	N/C	Pin 33	N/C
Pin 15	RELAY 0a	Pin 34	RELAY 0b
Pin 16	RELAY 1a	Pin 35	RELAY 1b
Pin 17	RELAY 2a	Pin 36	RELAY 2b
Pin 18	RELAY 3a	Pin 37	RELAY 3b
Pin 19	N/C		

For **VXB-16004 / VXB-16008**:

Pin 1	ALARM 1	Pin 20	GND
Pin 2	ALARM 2	Pin 21	GND
Pin 3	ALARM 3	Pin 22	GND
Pin 4	ALARM 4	Pin 23	GND
Pin 5	ALARM 5	Pin 24	GND
Pin 6	ALARM 6	Pin 25	GND
Pin 7	ALARM 7	Pin 26	GND
Pin 8	ALARM 8	Pin 27	GND
Pin 9	ALARM 9	Pin 28	ARM/DISARM
Pin 10	ALARM 10	Pin 29	SECURITY SWITCH
Pin 11	ALARM 11	Pin 30	POWER FAILURE
Pin 12	ALARM 12	Pin 31	SYSTEM TAMPER
Pin 13	ALARM 13	Pin 32	ALARM 14
Pin 14	ALARM 15	Pin 33	ALARM 16
Pin 15	RELAY 0a	Pin 34	RELAY 0b
Pin 16	RELAY 1a	Pin 35	RELAY 1b
Pin 17	RELAY 2a	Pin 36	RELAY 2b
Pin 18	RELAY 3a	Pin 37	RELAY 3b
Pin 19	N/C		

Installation of *Tele*Eye *III+* VXB for Local Monitoring *(Support BS8418)*

Install *Tele*Eye *III+* VXB with Tamper Circuit and External Resistors

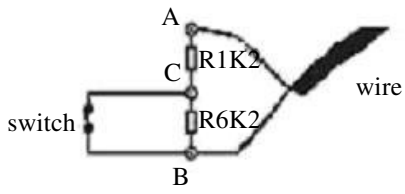
***Tele*Eye *III+* VXB** supports tamper detection (DEOL and SEOL) on all alarm input, arm/disarm input and security switch input.

***DEOL : Dual End of Line termination with NC and NO connection**
***SEOL : Single End of Line termination with NC and NO connection**
NC/NO : Alarm or input port without tamper circuit connection

For connecting the tamper circuit with DEOL, the circuit with the normal closed condition when the system detected a 1.2kΩ and with an alarm open condition when the system detected a 7.4kΩ. The transition from 1.2kΩ to 7.4kΩ is generated an alarm condition. To set up the configuration of those alarms and input port are shown in the following diagram. The circuit debounce time between each sensors is 20 millisecond.

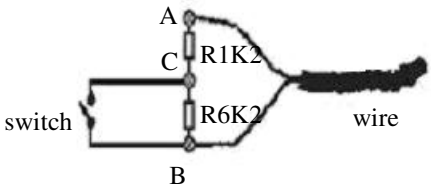
(*please refer to glossary)

Dual End of Line Configuration:



Normal Close (NC)

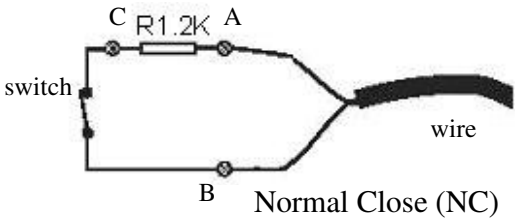
Term	Status	Description
S/C	TAMPER	Wire short (point A and B)
LoZ	NORMAL	Switch close (point B and C)
HiZ	ALARM	Switch open (point B and C)
O/C	TAMPER	Wire open (point A and B)



Normal Open (NO)

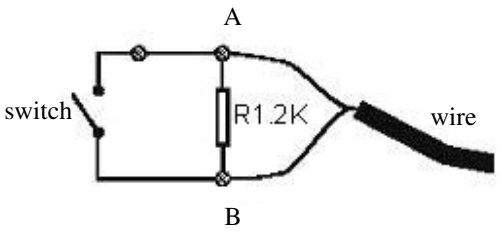
Term	Status	Description
S/C	TAMPER	Wire short (point A and B)
LoZ	ALARM	Switch close (point B and C)
HiZ	NORMAL	Switch open (point B and C)
O/C	TAMPER	Wire open (point A and B)

Single End of Line Configuration:



Normal Close (NC)

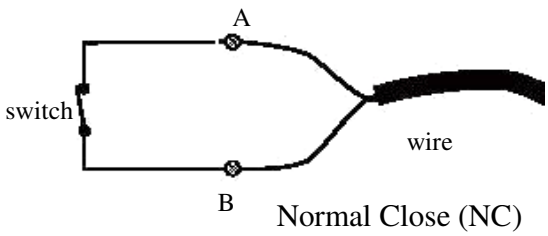
Term	Status	Description
S/C	TAMPER	Wire short (point A and B)
LoZ	NORMAL	Switch close (point B and C)
O/C	ALARM	Switch open (point B and C)



Normal Open (NO)

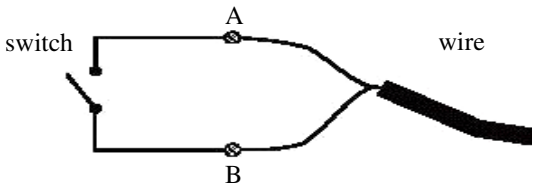
Term	Status	Description
S/C	ALARM	Switch close (point A and B)
LoZ	NORMAL	Switch open (point A and B)
O/C	TAMPER	Wire open (point A and B)

Without Tamper Circuit Configuration:



Normal Close (NC)

Term	Status	Description
S/C	NORMAL	Switch close (point A and B)
O/C	ALARM	Switch open (point A and B)



Normal Open (NO)

Term	Status	Description
S/C	ALARM	Switch close (point A and B)
O/C	NORMAL	Switch open (point A and B)

LEGEND	
NO	Normally Open Alarm
NC	Normally Closed Alarm
O/C	Open Circuit
S/C	Short Circuit
LoZ	Low Impedance (1K2)
HiZ	High Impedance (7K4)

Installation of *Tele*Eye *III+* VXB for Local Monitoring *(Support BS8418)*

Notes:

The below table is the summary between the resistance network and the condition result is shown

		Resistance (Ω)		
Condition	**0~400**	**401~2780**	**2781~29.5k**	**29.5k~Infinity**
DEOL (Normal Close)	Tamper Short	Normal (Close)	Alarm (Open)	Tamper Open
DEOL (Normal Open)	Tamper Short	Alarm (Close)	Normal (Open)	Tamper Open
SEOL (Normal Close)	Tamper Short	Normal (Close)	Alarm (N/A)	Alarm (Open)
SEOL (Normal Open)	Alarm (Close)	Normal (Open)	Alarm (N/A)	Tamper Open
NC without tamper	Normal (Close)	Alarm (N/A)	Alarm (N/A)	Alarm (Open)
NO without tamper	Alarm (Close)	Alarm (N/A)	Alarm (N/A)	Normal (Open)

Alarm (N/A): Alarm with not applicable.

SECTION 3

INSTALLATION OF *Tele*Eye *III+* VXB FOR REMOTE MONITORING

Install *Tele*Eye *III+* VXB for Remote Monitoring with Network

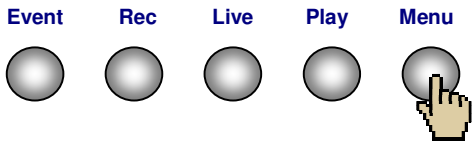
A. Setup *Tele*Eye *III+* VXB for connection in LAN environment

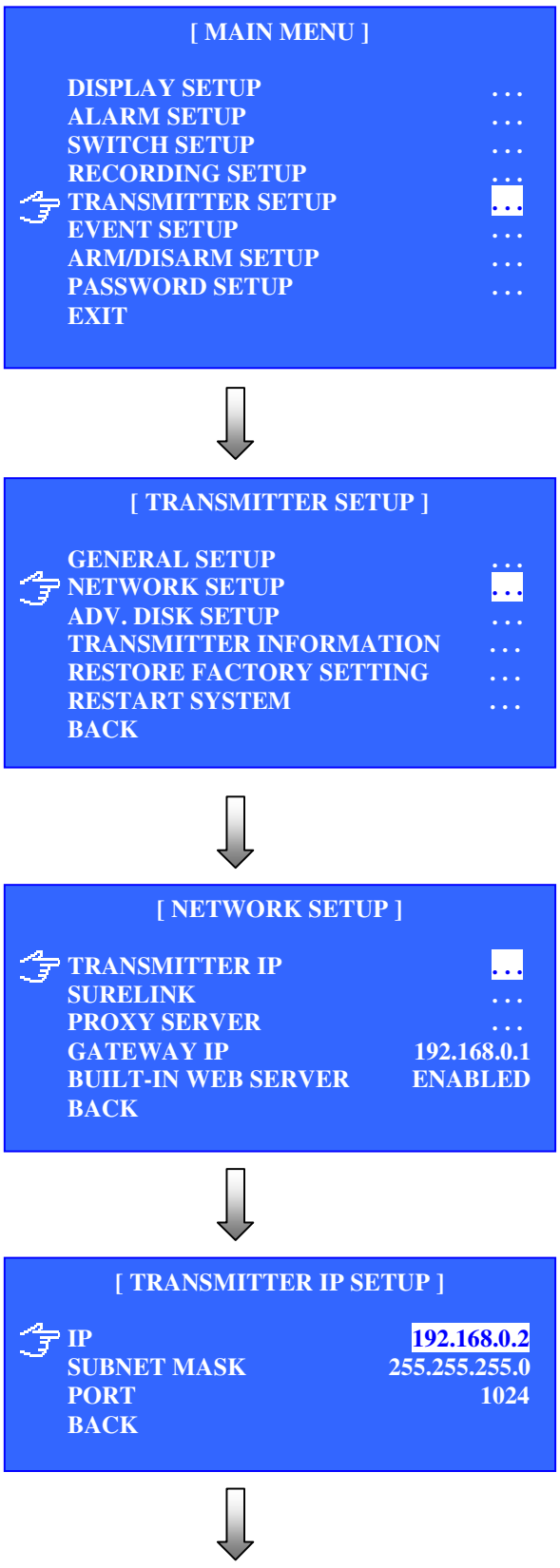
Before setting up the transmitter on LAN, you need to prepare the following items:

- A straight through RJ45 Ethernet cable
- An IP address which is unique in your LAN network. Consult your network administrator if you don't have

Procedures:

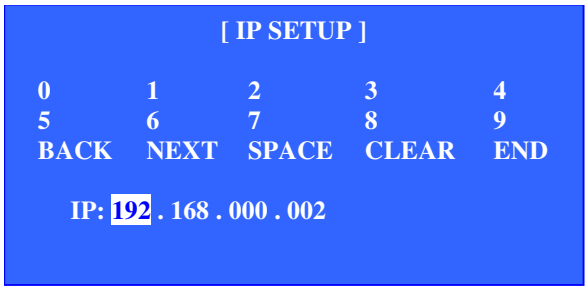
1. Follow the steps of setting up *Tele*Eye *III+* VXB for local video display, now you can see the live video and OSD on the monitor
2. Press the **[Menu]** button on front panel of *Tele*Eye *III+* VXB such that the OSD main menu will popup on the monitor as follows





- Use the arrow button to select the **[TRANSMITTER SETUP]** menu. The selected item will be pointed by a hand icon.
- Press the **[Enter]** button to enter the selected sub-menu
- In the **[TRANSMITTER SETUP]** menu, move the cursor to **[NETWORK SETUP]**
- Press the **[Enter]** button to enter the selected sub-menu
- If you have selected the wrong sub-menu, you can select the **[BACK]** item to go back to the previous menu
- Later on you can go back to this menu to enable the built-in web server so that you can use a web browser (eg. IE) to test the connection

Menu items ended with **[…]** indicate sub-menu exist

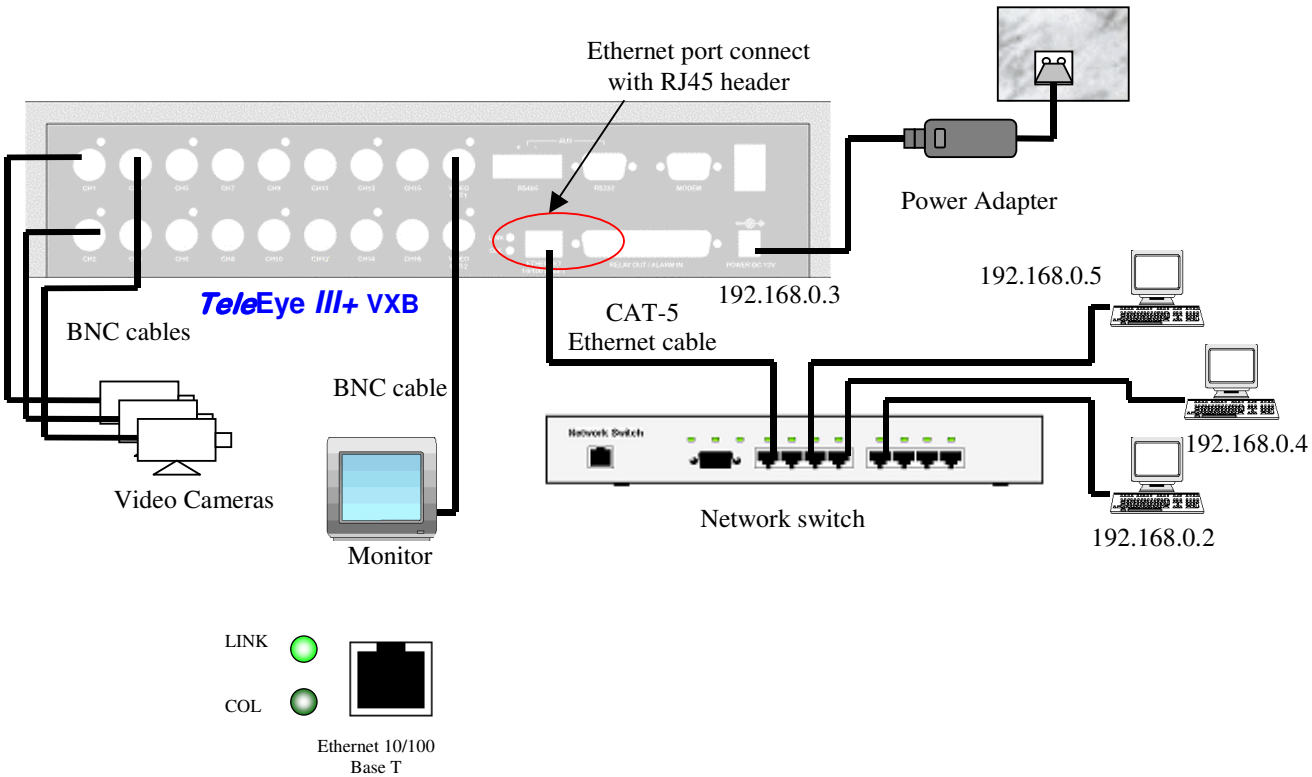


- Use Cursor button to move the cursor to select **0-9**, **[BACK]**, **[NEXT]**, etc.
- Use the **[Enter]** button to confirm selection
- After entering the IP address, select **[END]** and press **[Enter]** button to go back to previous menu for subnet mask and port number setting

3. After setting up the IP address, you need to setup the subnet mask and port number in the similar way

4. After changing any network settings, you should back to the **[MAIN MENU]** and **[EXIT]** the main menu to save all the settings. Or you can press the **[Live]** button to fast exit the menu operation

5. Now connect the ***Tele*Eye *III+* VXB** to your LAN using Ethernet cable as shown in the following diagram



6. Power on the ***TeleEye III+*** **VXB**. You will notice the **LINK LED** is on and **COL LED** is off which indicate you have connected to your LAN network properly.

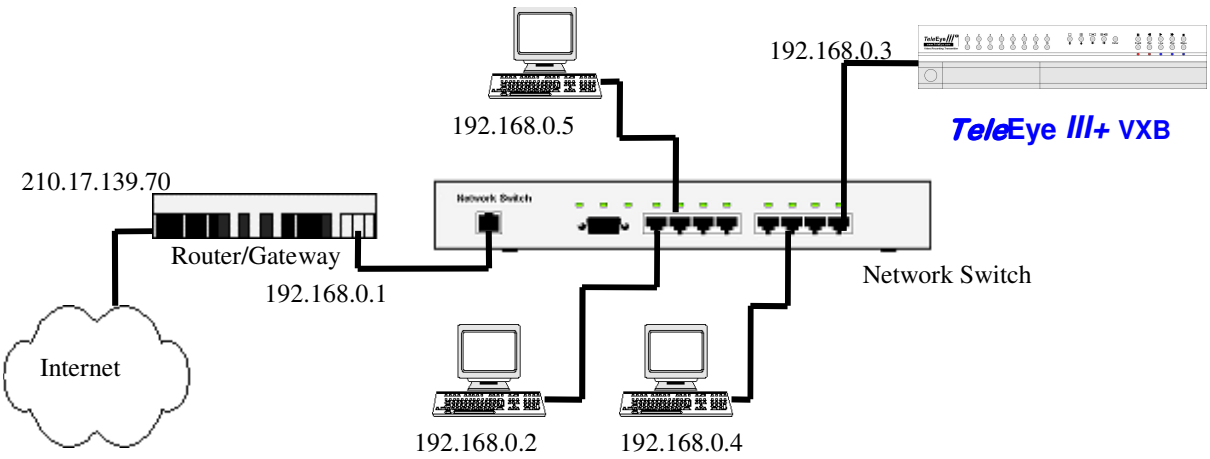
7. If you have enabled the built-in web server of ***TeleEye III+*** **VXB**, you can connect to ***TeleEye III+*** **VXB** using a web browser (eg. IE) on a PC inside the network. Type the address as (eg. http://192.168.0.3), you are prompt to enter the password (default is "000000"). Please see section 5 for detail on built-in web server access.

8. If all the settings are correct, you can view the video through the browser.

B. Setup *TeleEye III+* VXB for connection in WAN environment with static IP

Connection topology:

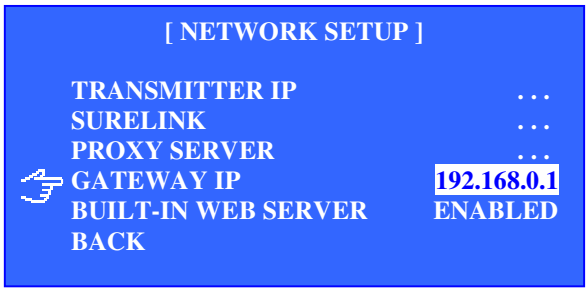
The connection topology of ***TeleEye III+*** **VXB** in WAN environment is similar in the case of LAN. An additional equipment called Router/Gateway is needed for connecting the LAN with WAN. Therefore, we need to setup the gateway IP for ***TeleEye III+*** **VXB**.



Procedures:

1. Follow the steps of setting up ***TeleEye III+*** **VXB** for local video display so that you can configure everything with OSD. Press the button **[Menu]**, and then by entering the menu **[MAIN MENU]** and **[TRANSMITTER SETUP]**, you can see the following menu.

Installation of *TeleEye III+* VXB for Remote Monitoring



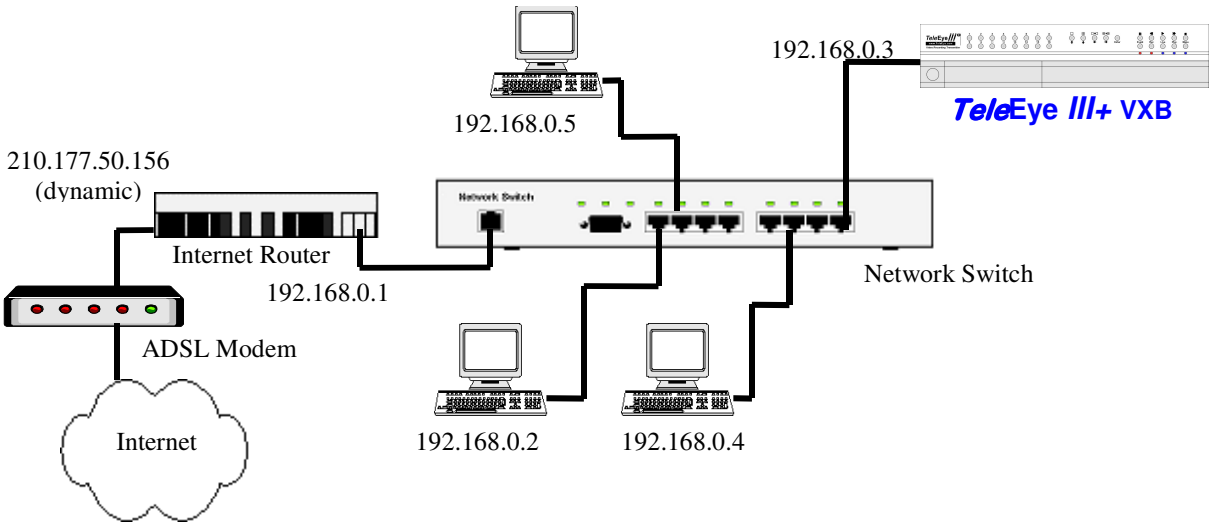
- Use Cursor button to select the **[GATEWAY IP]** item
- Use the **[Enter]** button to enter the **[GATEWAY IP]** sub-menu to change the gateway IP
- Exit all menus to save the settings

2. Power on the ***TeleEye III+* VXB**. The **LINK LED** is on and **COL LED** is off, which indicate that you have connected to your LAN properly.

C. Setup *TeleEye III+* VXB for Broadband Internet connection with dynamic IP using Internet router

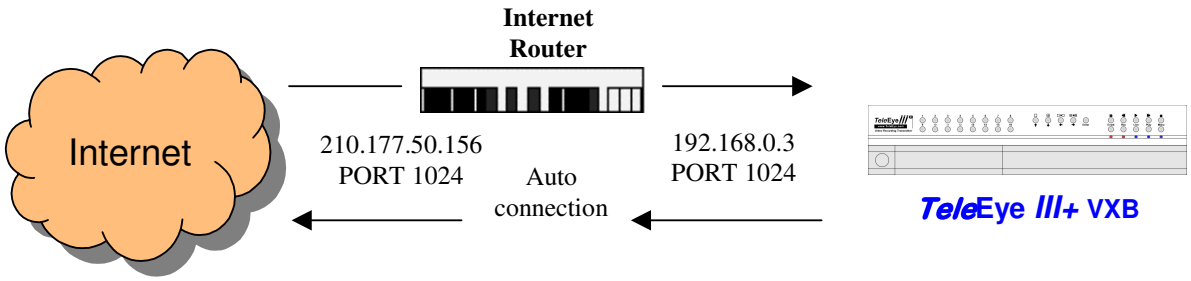
Connection topology:

Nowadays, Broadband Internet access is established by using ADSL modem or Cable modem. For ADSL modem, an Internet Router is used to be setup with the broadband access account name and password. To enable a remote viewer to connect to ***TeleEye III+* VXB** through the Internet, we need to setup port mapping for the Internet Router.



Procedures:

1. Install ADSL modem and Internet Router as shown in the connection topology diagram. Setup the Port mapping for Internet Router so that other PCs on the Internet can "see" ***TeleEye III+*** **VXB** using that specific port. A typical port mapping setting is illustrated in the following diagram.

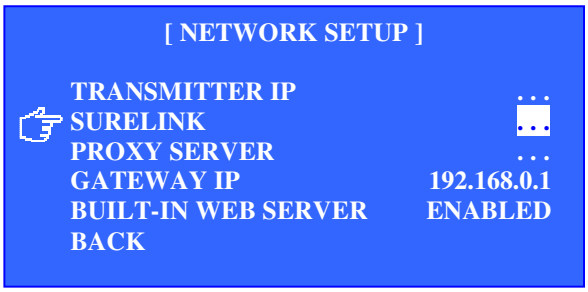


External port	1024
Internal IP	192.168.0.2
Internal port	1024

2. The IP address assigned by the ISP to you through ADSL modem is dynamic, which means it will change after certain period of time. In order to make the ***TeleEye III+*** **VXB** addressable, you need to apply for our proprietary ***sure*LINK** service. Procedures involved are listed in appendix A.

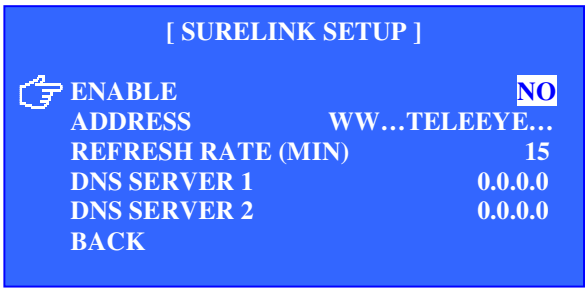
3. After successful application of ***sure*LINK** service, you will obtain a ***sure*LINK** address, for example "www.your_site.your_company.teleeye.net".

4. Follow the steps below to set the ***sure*LINK** address and DNS name into ***TeleEye III+*** **VXB**.



- Press [Menu] button to enter the **[MAIN MENU]**, and then select **[TRANSMITTER SETUP] -> [NETWORK SETUP]**
- Use the arrow button to select **[SURELINK]** item, press **[Enter]** to popup the **[SURELINK SETUP]** menu

Installation of *TeleEye III+* VXB for Remote Monitoring



- Select the **[ENABLE]** item, then use the left and right arrow button to select YES
- Enter the **[ADDRESS], [DNS SERVER1], [DNS SERVER2]** item, and change them to the correct value
- Exit all menus to save the settings

5. DNS address enables your ***TeleEye III+*** **VXB** using the ***sure*LINK** address to update its IP address to TeleEye's ***sure*LINK** server, the refresh rate indicates the time duration for updating. Duration of 15-45 minutes is frequent enough.

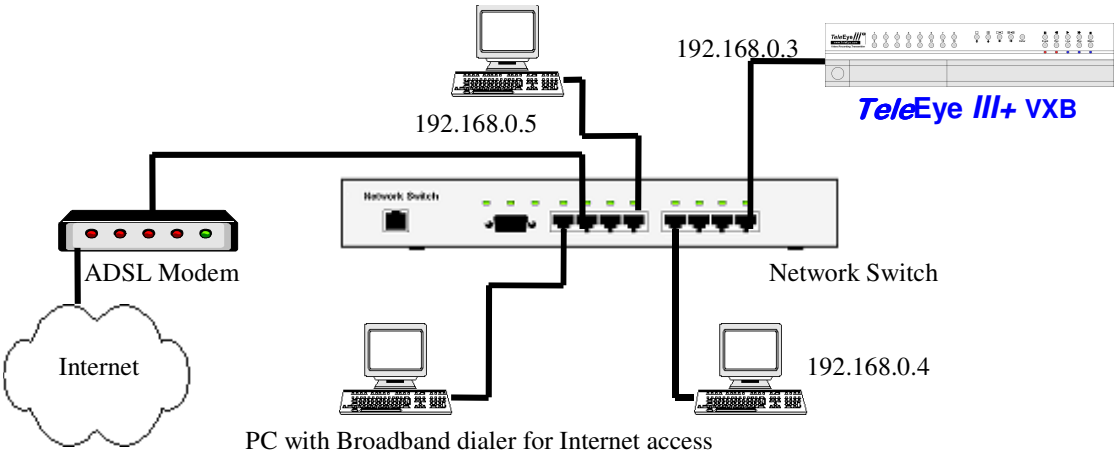
6. After finish all configurations, power resets the ***TeleEye III+*** **VXB** to make the new values effective.

7. Try to use a web browser (eg. IE) to connect to ***TeleEye III+*** **VXB** by entering its ***sure*LINK** address, you can see the video on browser if all your settings are correct. (Note: you must enable the built-in web server of ***TeleEye III+*** **VXB** before doing the testing)

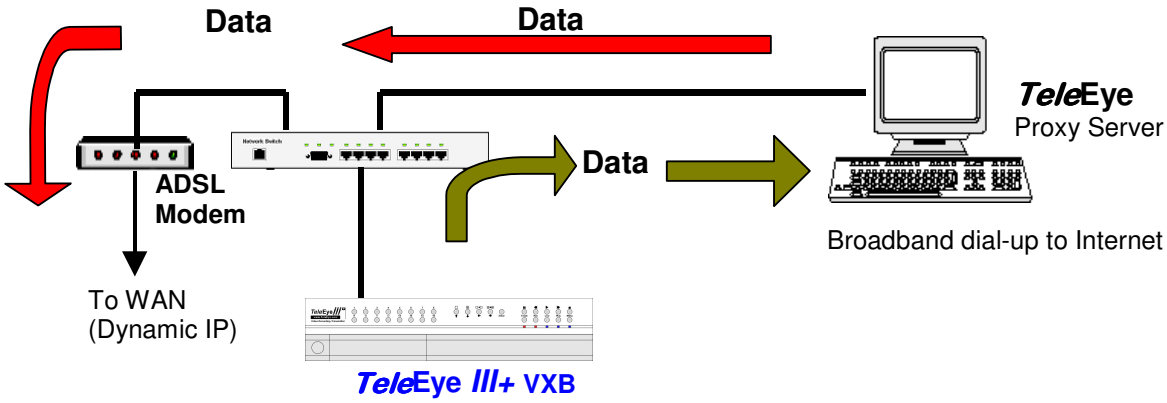
D. Setup *TeleEye III+* VXB for Broadband Internet connection with dynamic IP using Broadband dialer

Connection topology:

It is possible to share the Broadband Internet access without an Internet router. Instead, a dedicated PC is required to control the ADSL modem to connect to the Internet. This dedicated PC will obtain a "real" but dynamic IP from the ISP, a proxy server is thus required to act as a gateway between ***TeleEye III+*** **VXB** and the Internet.



The video data flow between ***Tele*Eye *III+* VXB** to the Internet through the proxy server is illustrated in the following diagram.

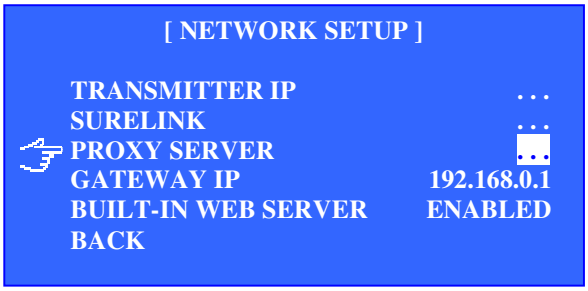


Transmitter installation procedures:

1. Install ADSL modem as shown in the connection topology diagram. Connect ***Tele*Eye *III+* VXB** to network switch, and following the steps in setting up ***Tele*Eye *III+* VXB** for Broadband Internet connection with dynamic IP using Internet router. Notice that the gateway of ***Tele*Eye *III+* VXB** should remain blank in this case.

Installation of *Tele*Eye *III+* VXB for Remote Monitoring

2. Press **[Enter]** button to pop up the main menu, and enter the sub-menu **[TRANSMIITER SETUP] -> [NETWORK SETUP]**.



3. Select **[PROXY SERVER]** item and then press enter to edit the proxy sever IP address.

4. You need to set edit each items of the **[PROXY SERVER SETUP]** menu. Select **[ENABLE]** item and user left/right arrow button to toggle select **[YES]**, enter the IP address (eg. 192.168.0.2 as in the connection topology), and set the port number (default value is 19001).

5. Setup ***sure*LINK** address and related settings as previous discussed.

6. Reset ***TeleEye III+* VXB** so that all settings will take effect.

PC software installation procedures:

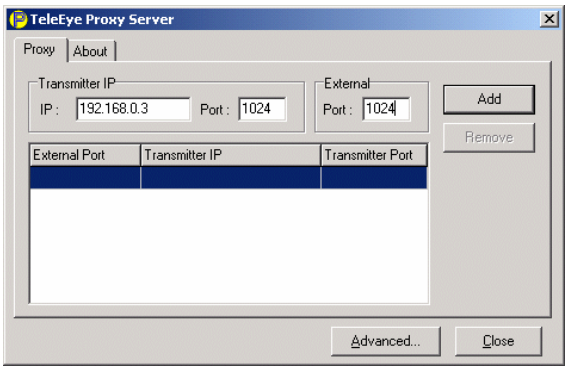
1. On PC side, you need to install the Broadband dialer software and ***TeleEye*** proxy server software.

2. For Broadband dialer, consult your Broadband dialer software installation manual.

3. Install ***TeleEye*** proxy server software, which is bundled with ***TeleEye III+* WRS3-AD** software.

4. Start ***TeleEye*** proxy server, the following screen will pop up. Enter the transmitter IP (eg. 192.168.0.3) and port number (eg. 1024). The external port is the port number of the dynamic real IP, which is used for other PCs on the Internet to access the transmitter.

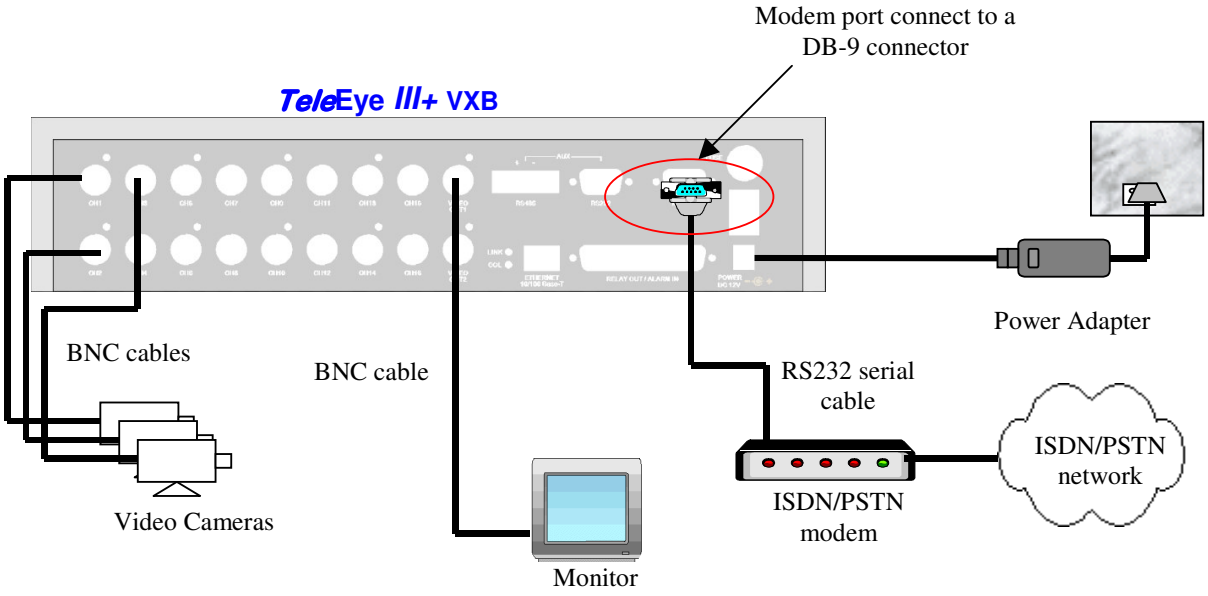
Installation of *TeleEye III+* VXB for Remote Monitoring



5. Click the **[Add]** button, so that the configurations will take effect and saved.

6. Try to connect to the ***Tele*Eye *III+* VXB** on the Internet with web browser using its ***sure*LINK** address.

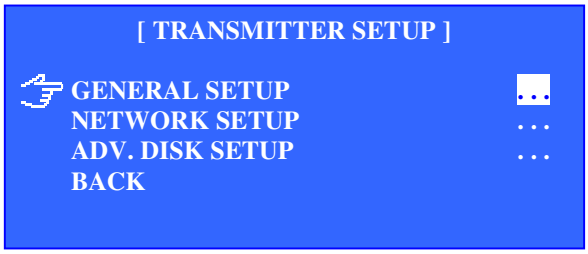
Install *TeleEye III+* VXB for Remote Monitoring with ISDN/PSTN Modem



Procedures:

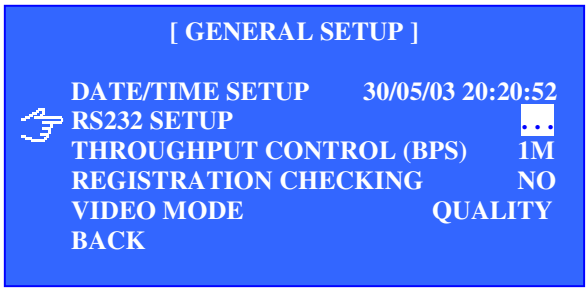
1. Follow the steps of setting up ***TeleEye III+* VXB** for local video display, so that you can configure the modem port locally with keypad and monitor

2. Press the **[Menu]** button, and then **[TRANSMITTER SETUP]**, you will enter the following menu



3. Select the **[GENERAL SETUP]** item, the general setup menu will popup below, select **[RS232 SETUP]** item, and press **[Enter]** button to enter the sub-menu.

Installation of *TeleEye III+* VXB for Remote Monitoring



- Use **[Enter]** button to enter the selected sub-menu

Modem port bit rate is the maximum bit rate between ***Tele*Eye *III+* VXB** and the modem, the actual transmission bit rate may depends on the bit rate between the modems after training

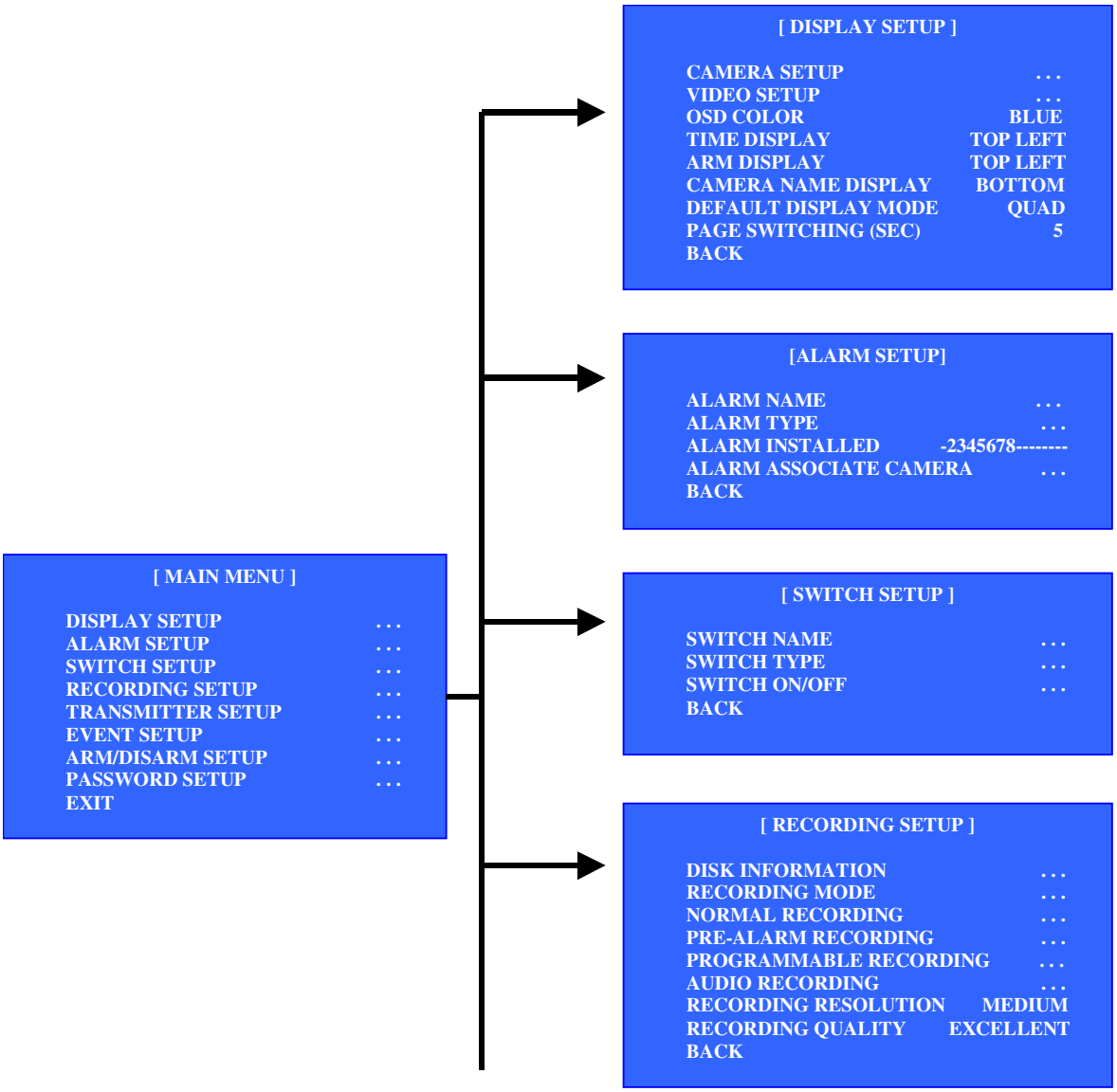
4. Connect an ISDN/PSTN modem to ***Tele*Eye *III+* VXB** using RS232 serial cable. Power on both ***Tele*Eye *III+* VXB** and modem, using the ***Tele*Eye WRS3-AD** software to make a modem connection to ***Tele*Eye *III+* VXB** transmitter. If all the configurations are correct, you will see video on the **WRS3-AD** software. (For using of **WRS3-AD** software, please refer to ***Tele*Eye WRS3-AD** user manual)

SECTION 4

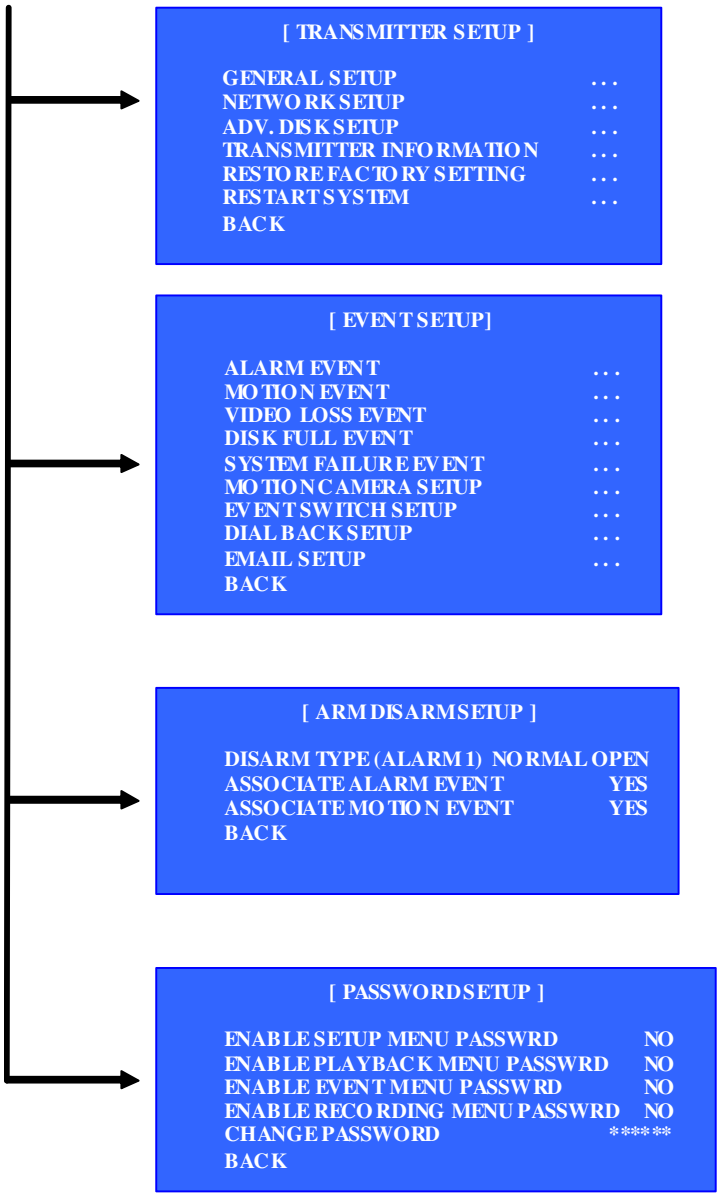
MENU OPERATION

Menu Structure

The system setup and operation of ***Tele*Eye *III+* VXB** is controlled through menus. The overall menu tree is shown in the following diagram. The function of each menu will be explained later in this section.

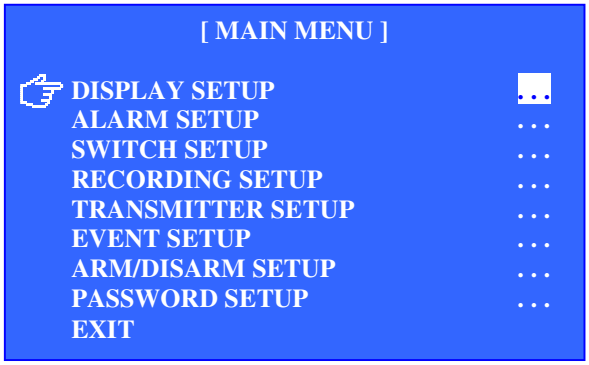


Menu Operation

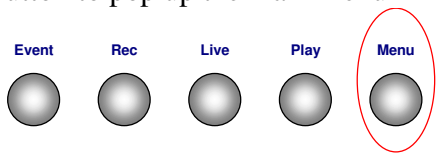


Menu Operation

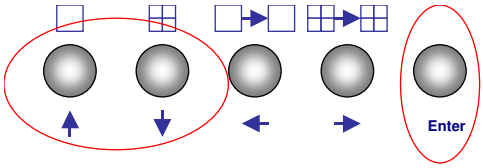
Main Menu



1. Press the **[Menu]** button to pop up the main menu



2. Using the **[up/down arrow]** button to select a sub-menu



3. A selected sub-menu item will be pointed by a hand cursor and highlighted

4. Press **[Enter]** button to confirm the selection and pop up the sub-menu

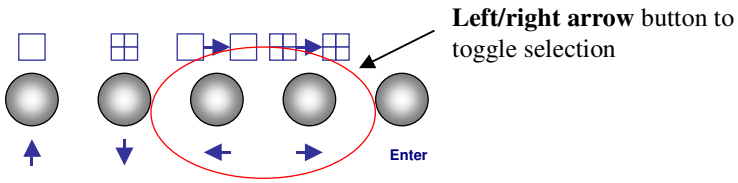
5. The main menu contains the following items

DISPLAY SETUP	: Change camera, live video and OSD related settings
ALARM SETUP	: Change alarm related settings
SWITCH SETUP	: Change relay switch related settings
RECORDING SETUP	: Change recording related settings
TRANSMITTER SETUP	: Change the transmitter general and network settings
EVENT SETUP	: Change event, and event related settings
ARM DISARM SETUP	: Change arm disarm related settings
PASSWORD SETUP	: Change system password settings
EXIT	: Exit the main menu

6. Menu item ended with **[. . .]** indicates sub-menu exist. You can always press the **[Enter]** button to pop up the sub-menu

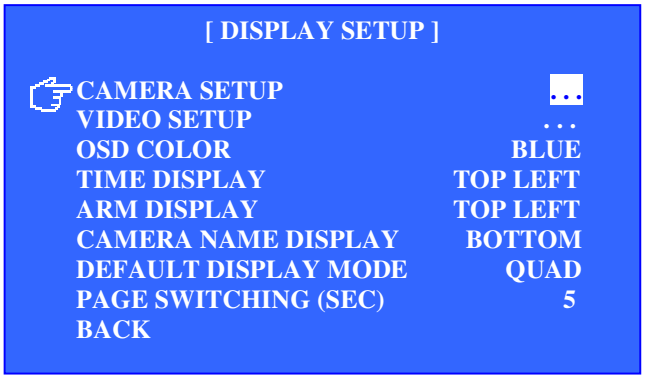
Menu Operation

7. If menu item not ended with **[. . .]** but provides selection, you can always press the **[left/right arrow]** button to toggle the selections



8. In menu operation mode, the **[Menu]** button act as a "Back" button, you can press the **[Menu]** button back to previous menu

Display Setup Menu



The display setup menu contains the following items

CAMERA SETUP	: Change camera name, camera install
VIDEO SETUP	: Change video brightness, contrast and color format
OSD COLOR	: Change OSD color
TIME DISPLAY	: Change the position of time display on OSD
ARM DISPLAY	: Change the position of arm disarm display on OSD
CAMERA NAME DISPLAY	: Change the position of camera name display on OSD
DEFAULT DISPLAY MODE	: Change display mode on OSD
PAGE SWITCHING (SEC)	: Change the page switching time
BACK	: Back to previous menu

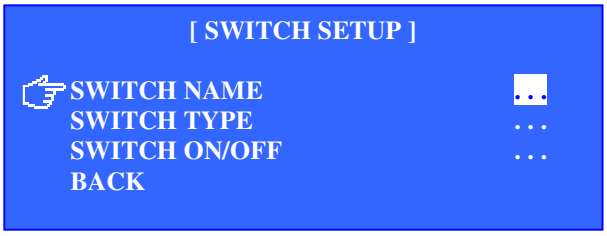
Menu Operation

Alarm Setup Menu

The alarm setup menu contains the following items

ALARM NAME	: Change alarm port name
ALARM TYPE	: Change alarm type, normal close or normal open
ALARM INSTALLED	: Change installed alarms
ALARM ASSOCIATE CAMERA	: Change alarm associate camera for alarm recording
BACK	: Back to previous menu

Switch Setup Menu



The switch setup menu contains the following items

SWITCH NAME	: Change relay switch name
SWITCH TYPE	: Change relay switch type
SWITCH ON/OFF	: Manually control the switch to ON/OFF state
BACK	: Back to previous menu

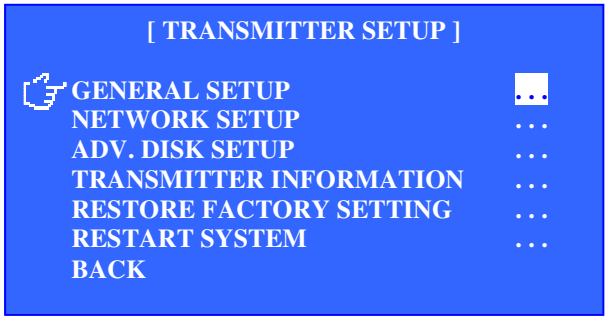
Menu Operation

Recording Setup Menu

The recording setup menu contains the following items

DISK INFORMATION	: Report the hard disk information
RECORDING MODE	: Select fix or cyclic recording mode
NORMAL RECORDING	: Change normal recording enabled cameras
PRE-ALARM RECORDING	: Change settings of programmable recording
PROGRAMMABLE RECORDING	: Enable/Disable pre-alarm recording
AUDIO RECORDING	: Change settings of audio recording
RECORDING RESOLUTION	: Change recording resolution
RECORDING QUALITY	: Change recording quality
BACK	: Back to previous menu

Transmitter Setup Menu



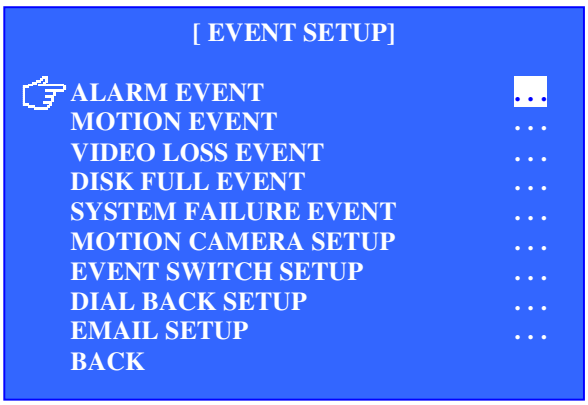
The transmitter setup menu contains the following items

GENERAL SETUP	: Change general settings such as date/time, modem port
NETWORK SETUP	: Change network type setting such as IP address, port
ADV. DISK SETUP	: Hard disk scanning and formatting tools
TRANSMITTER	

Menu Operation

INFORMATION : Show the transmitter information
RESTORE FACTORY SETTING: Restore the factory setting
RESTART SYSTEM : Restarting the system
BACK : Back to previous menu

Event Setup Menu



The event setup menu contains the following items

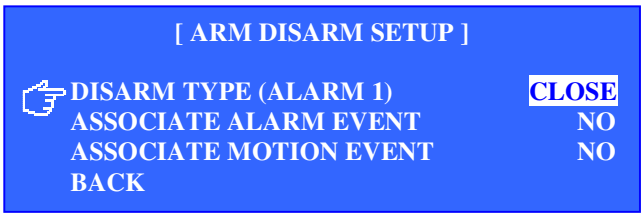
ALARM EVENT : Change alarm event associated actions
MOTION EVENT : Change motion event associated actions
VIDEO LOSS EVENT : Change video loss event associated actions
DISK FULL EVENT : Change disk full event associated actions
SYSTEM FAILURE EVENT : Change system failure event associated actions
MOTION CAMERA SETUP : Enable/Disable motion detection for a particular camera
EVENT SWITCH SETUP : Change relay switch type for event triggered actions
DIAL BACK SETUP : Change dial back action settings
EMAIL SETUP : Change Email action settings
BACK : Back to previous menu

There are totally five types of event action – Recording, Switch, Dial back, Email and Buzzer (in short form R, S, D, E and B). User can enable these actions as their requirement.

Recording - when an event occurs, the system will start to record video into hard disk
Switch - after activating the switch control, the system will turn on the switch for event
Dial back - the system will take “dial back” action if the specified event occurs
Email - it is similar to “dial back” option, but the system will send an email
Buzzer - the system will make beep sound for 10 second

Menu Operation

Arm/Disarm Setup Menu



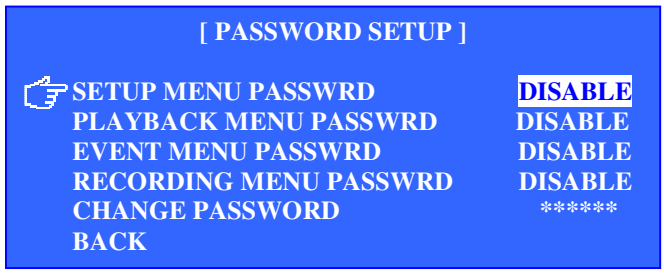
The *arm/disarm setup menu contains the following items

DISARM TYPE (ALARM 1) : Change arm/disarm type
ASSOCIATE ALARM EVENT : Change arm/disarm associated with alarm event
ASSOCIATE MOTION EVENT : Change arm/disarm associated with motion event
BACK : Back to previous menu

Note: ARM/DISARM is controlled by alarm 1

(*please refer to glossary)

Password Setup Menu



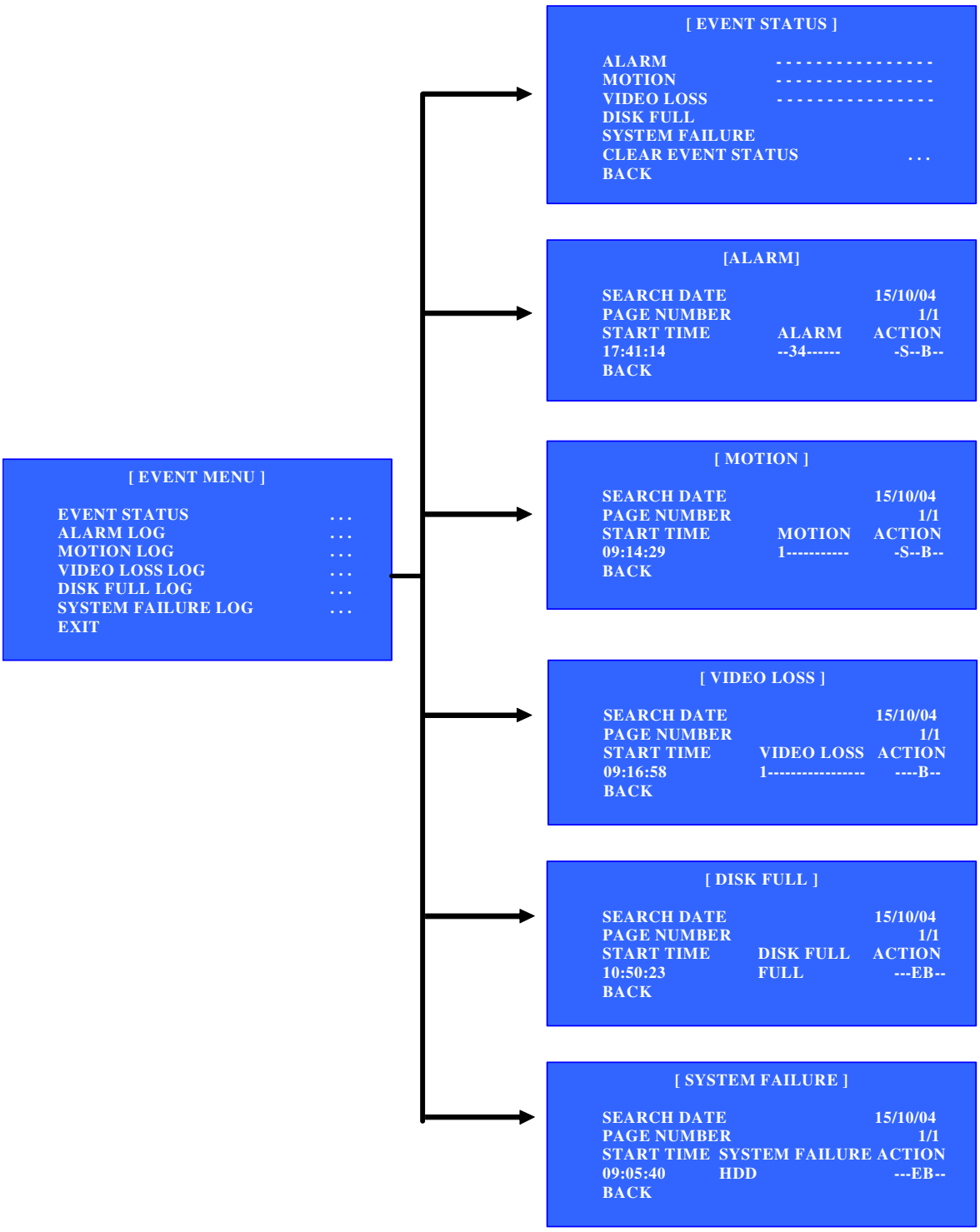
The password setup menu contains the following items

SETUP MENU PASSWORD : Enable/disable setup menu password
PLAYBACK MENU PASSWORD : Enable/disable playback menu password
EVENT MENU PASSWORD : Enable/disable event menu password
RECORDING MENU PASSWORD : Enable/disable recording menu password
CHANGE PASSWORD : Change to a new password
BACK : Back to previous menu

Menu Operation

Event Structure

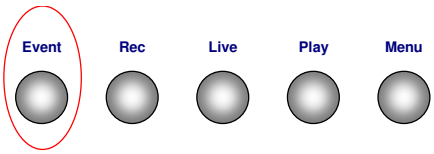
The event action log and status of ***Tele*Eye *III+* VXB** is controlled by **[Event]** button. The event menu tree and the function of each menu is shown in the following diagram.


[EVENT MENU]
EVENT STATUS . . .
ALARM LOG . . .
MOTION LOG . . .
VIDEO LOSS LOG . . .
DISK FULL LOG . . .
SYSTEM FAILURE LOG . . .
EXIT
[EVENT STATUS]
ALARM - - - - - - - - - - - - - - - -
MOTION - - - - - - - - - - - - - - - -
VIDEO LOSS - - - - - - - - - - - - - - - -
DISK FULL
SYSTEM FAILURE
CLEAR EVENT STATUS . . .
BACK
[ALARM]
SEARCH DATE 15/10/04
PAGE NUMBER 1/1
START TIME ALARM ACTION
17:41:14 --34------ -S--B--
BACK
[MOTION]
SEARCH DATE 15/10/04
PAGE NUMBER 1/1
START TIME MOTION ACTION
09:14:29 1---------- -S--B--
BACK
[VIDEO LOSS]
SEARCH DATE 15/10/04
PAGE NUMBER 1/1
START TIME VIDEO LOSS ACTION
09:16:58 1---------- ----B--
BACK
[DISK FULL]
SEARCH DATE 15/10/04
PAGE NUMBER 1/1
START TIME DISK FULL ACTION
10:50:23 FULL ---EB--
BACK
[SYSTEM FAILURE]
SEARCH DATE 15/10/04
PAGE NUMBER 1/1
START TIME SYSTEM FAILURE ACTION
09:05:40 HDD ---EB--
BACK

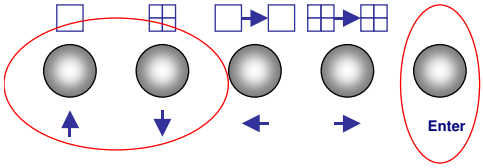
Menu Operation

Event Menu

1. Press the **[Event]** button to pop up the event menu



2. Using the **[up/down arrow]** button to select a sub-menu



3. A selected sub-menu item will be pointed by a hand cursor and highlighted

4. Press **[Enter]** button to confirm the selection and pop up the sub-menu

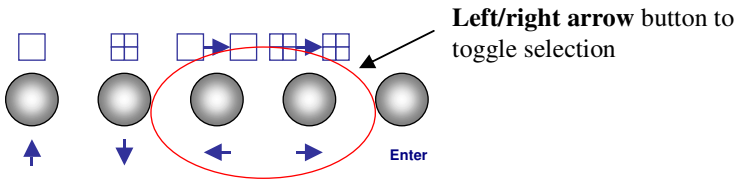
5. The event menu contains the following items

EVENT STATUS	: Show event status and related event log records
ALARM LOG	: Show alarm log records (Display per day)
MOTION LOG	: Show motion log record (Display per day)
VIDEO LOSS LOG	: Show video loss log record (Display per day)
DISK FULL LOG	: Show disk full log record (Display per day)
SYSTEM FAILURE LOG	: Show system failure log record (Display per day)
EXIT	: Exit the event menu

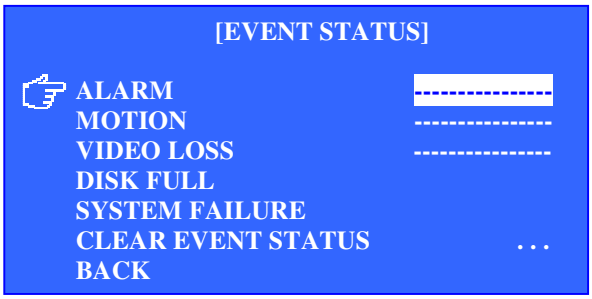
6. Event item ended with **[. . .]** indicates sub-menu exist. You can always press the **[Enter]** button to pop up the sub-menu

Menu Operation

7. If event item not ended with **[. . .]** but provides selection, you can always press the **[left/right arrow]** button to toggle the selections



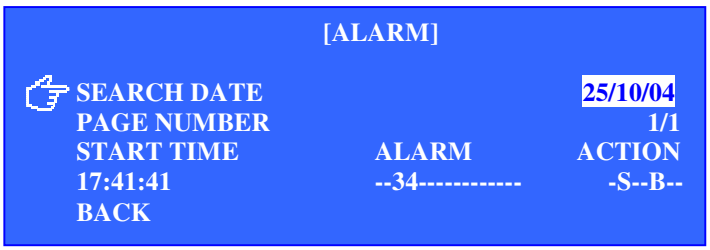
Event Status Menu



The event status menu contains the following items

ALARM	: Show alarm event status
MOTION	: Show motion event status
VIDEO LOSS	: Show video loss event status
DISK FULL	: Show disk full status
SYSTEM FAILURE	: Show system failure status
CLEAR EVENT STATUS	: Clear event status
BACK	: Back to previous menu

Alarm Log Menu

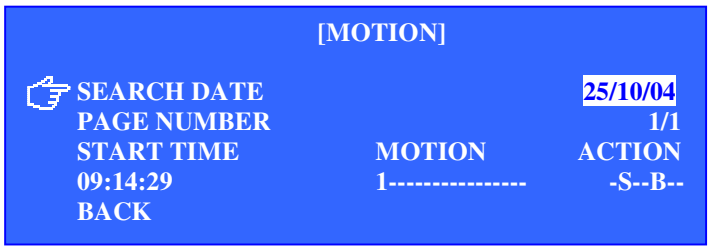


Menu Operation

The alarm log menu contains the following items

SEARCH DATE	: Search the alarm log by date
PAGE NUMBER	: Show the number of page found
START TIME/ ALARM / ACTION	: Show the start time, alarm no and alarm associate event action
BACK	: Back to previous menu

Motion Log Menu



The motion log menu contains the following items

SEARCH DATE	: Search the motion log by date
PAGE NUMBER	: Show the number of page found
START TIME/ MOTION / ACTION	: Show the start time, motion camera and motion associate event action
BACK	: Back to previous menu

(Remark : The motion detection system will reset itself provided that it does not detect any changing for 10 second. Therefore, the system will stop sending motion log after the 10 second.)

Video Loss Log Menu

Menu Operation

The video loss log menu contains the following items

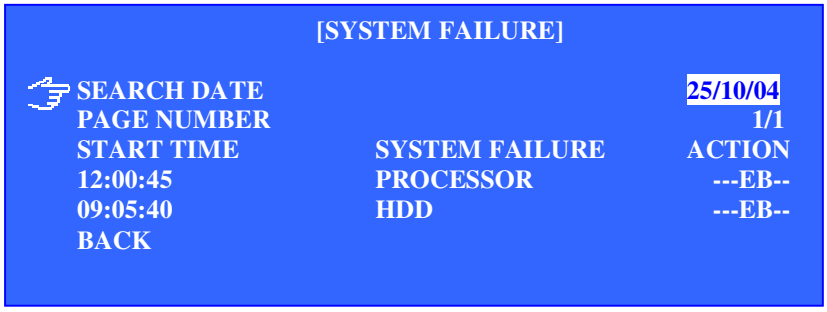
SEARCH DATE	: Search the video loss log by date
PAGE NUMBER	: Show the number of page found
START TIME/ VIDEO LOSS / ACTION	: Show the start time, video loss camera and video loss associate event action
NO RECORD FOUND	: Show the log list
BACK	: Back to previous menu

Disk Full Log Menu

The disk full log menu contains the following items

SEARCH DATE	: Search the disk full log by date
PAGE NUMBER	: Show the number of page found
START TIME/ DISK FULL / ACTION	: Show the start time, disk full and disk full associate event action
NO RECORD FOUND	: Show the log list
BACK	: Back to previous menu

System Failure Log Menu



Menu Operation

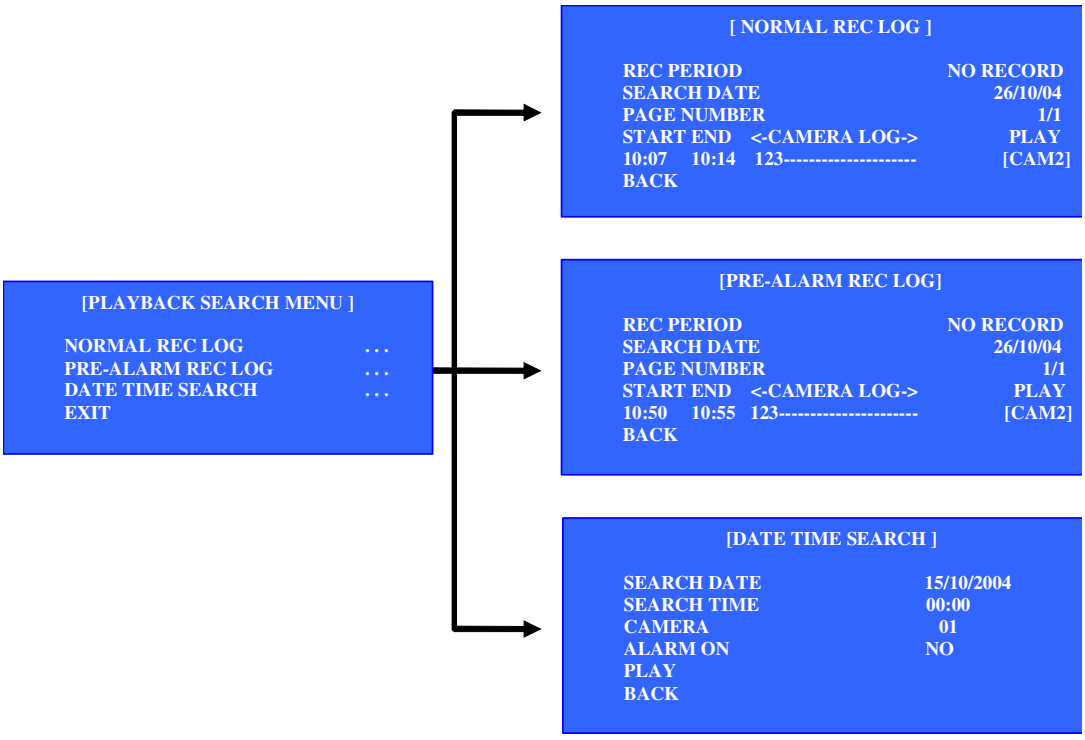
The system failure log menu contains the following items

SEARCH DATE	: Search the system failure log by date
PAGE NUMBER	: Show the number of page found
START TIME/ SYSTEM	: Show the start time, system failure and system
FAILURE/ ACTION	: Failure associate event action
NO RECORD FOUND	: Show the log list
BACK	: Back to previous menu

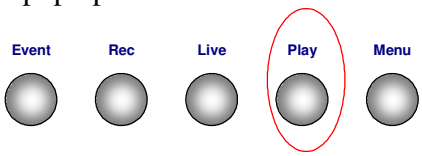
Finally, the total number of the log file for each item is about 260,000. If all the log files are fully occupied, the system will re-use the oldest log file to save the new log file. The only way to clean all the log files is to format the hard disk.

Playback Menu

The playback log in ***TeleEye III+* VXB** is controlled by **[Play]** button. The play menu tree is shown in the following diagram.

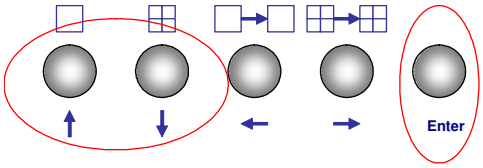


1. Press the **[Play]** button to pop up the event menu



Menu Operation

2. Using the **[up/down arrow]** button to select a sub-menu



3. A selected sub-menu item will be pointed by a hand cursor and highlighted

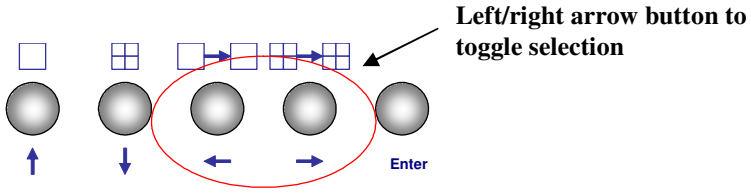
4. Press **[Enter]** button to confirm the selection and pop up the sub-menu

5. The Playback menu contains the following items

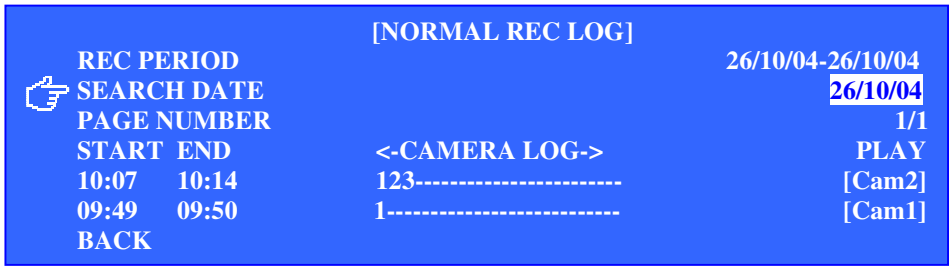
NORMAL REC LOG	: Show all records
PRE-ALARM REC LOG	: Show the pre-alarm records only
DATE TIME SEARCH	: Search the record by date and time
EXIT	: Exit the playback menu

6. Playback item ended with **[. . .]** indicates sub-menu exist. You can always press the **[Enter]** button to pop up the sub-menu

7. If playback item not ended with **[. . .]** but provides selection, you can always press the **[left/right arrow]** button to toggle the selections



Normal REC LOG



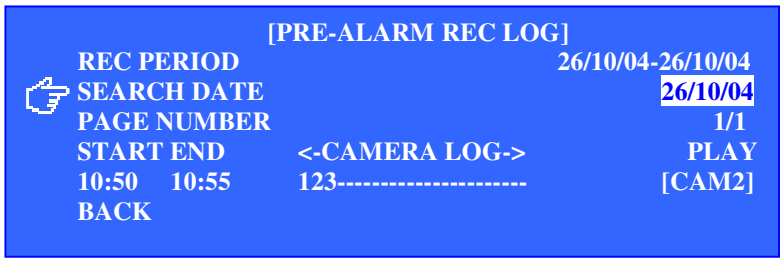
The normal REC log contains the following items

REC PERIOD	: Show the start date and the current date

Menu Operation

SEARCH DATE : Search record by date
PAGE NUMBER : Show the number of page found
START END : Show the start time and end time
CAMERA LOG : Show the event action log
PLAY : Show camera number
NO RECORD FOUND : Show the log list
BACK : Back to previous menu

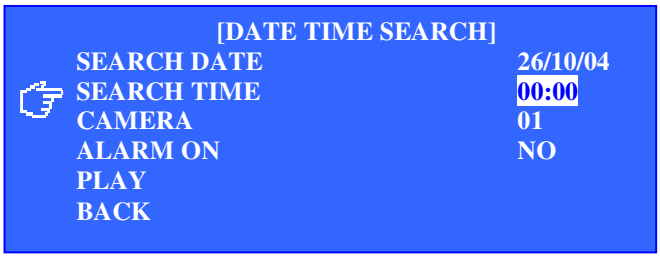
Pre-alarm REC LOG



The pre-alarm REC log contains the following items

REC PERIOD : Show the start date and the current date
SEARCH DATE : Search record by date
PAGE NUMBER : Show the number of page found
START END : Show the start time and end time
CAMERA LOG : Show the event action log
PLAY : Show camera number
NO RECORD FOUND : Show the log list
BACK : Back to previous menu

Date Time Search



The date time search menu contains the following items

SEARCH DATE : Search record by date

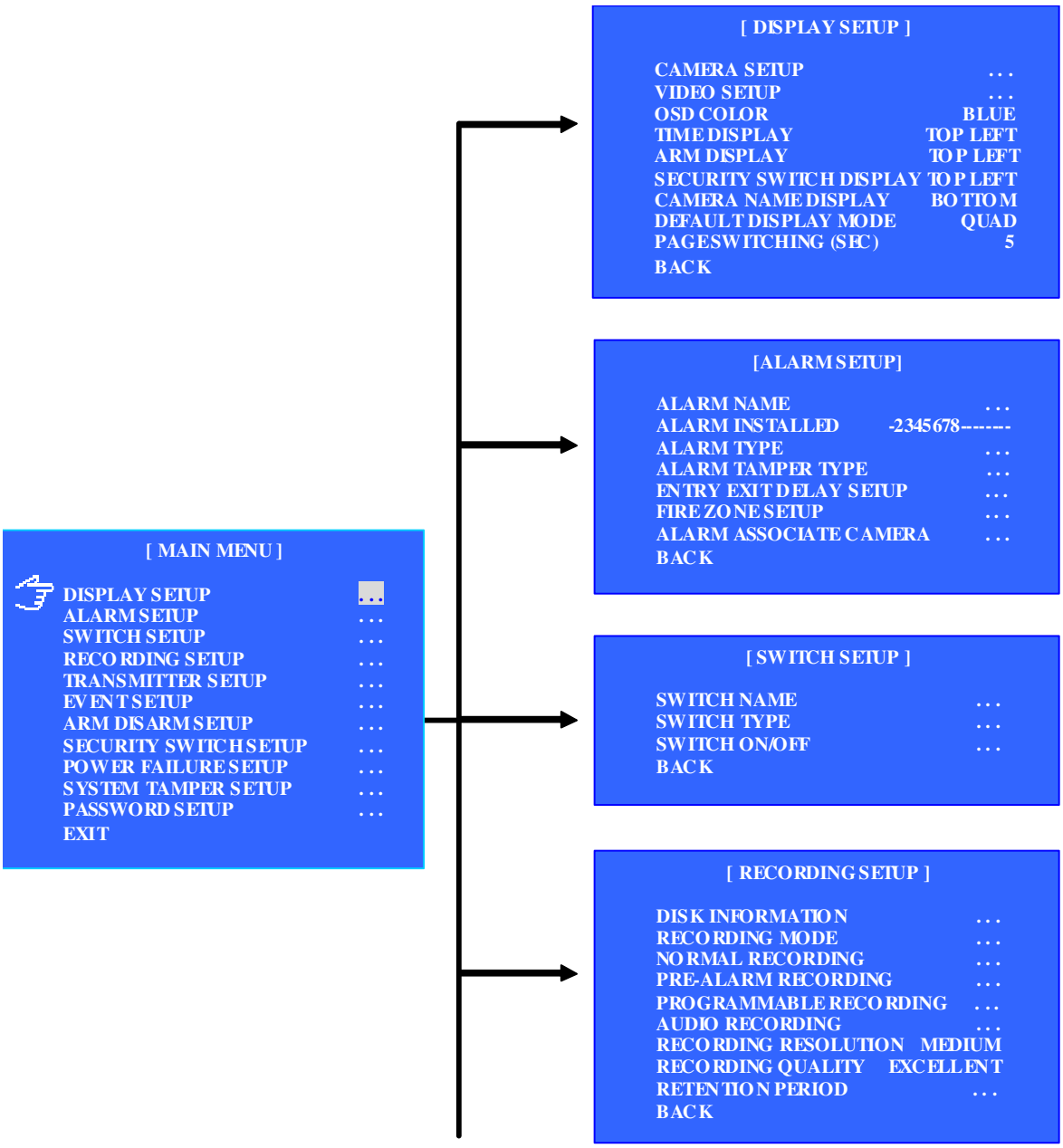
Menu Operation

SEARCH TIME : Search record by time
CAMERA : Select camera
ALARM ON : Show alarm status
PLAY : Start to play record
BACK : Back to previous menu

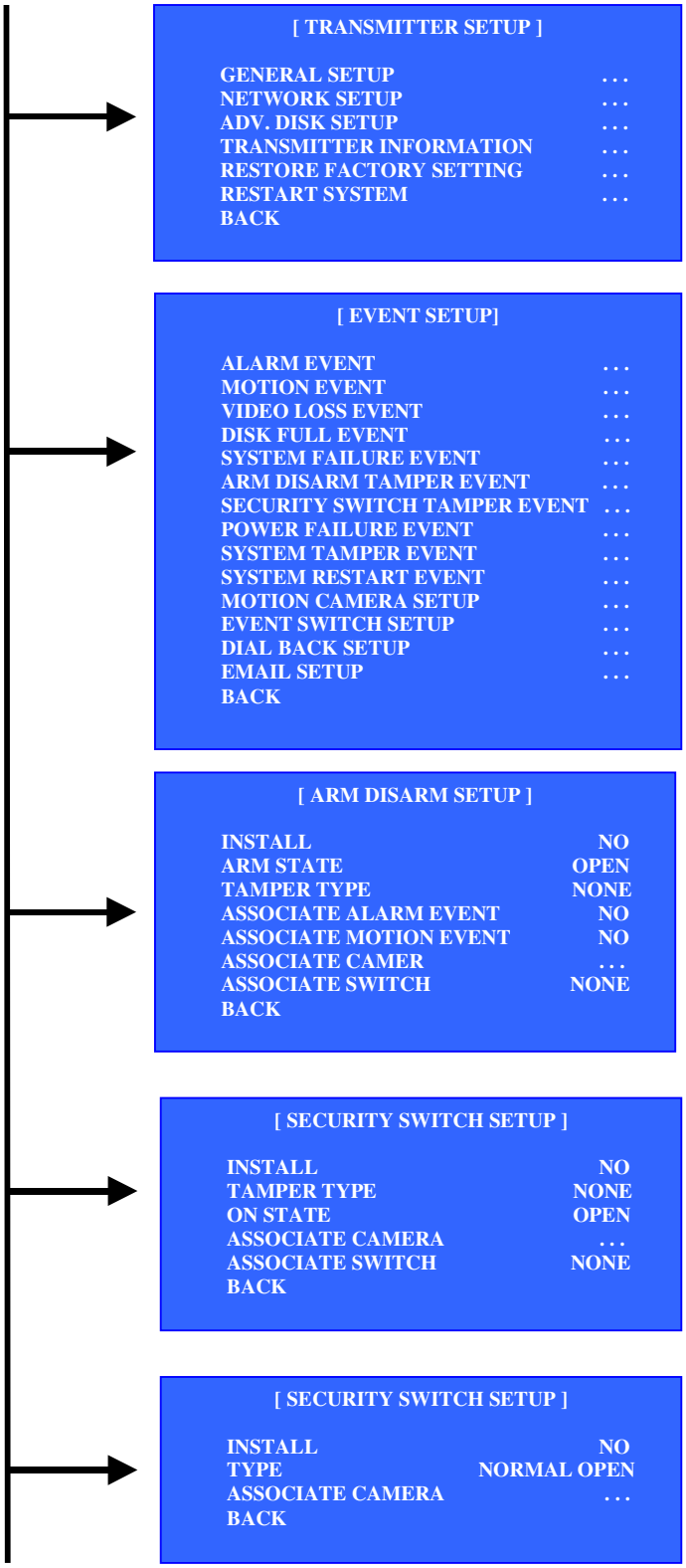
Support BS8418

Menu Structure

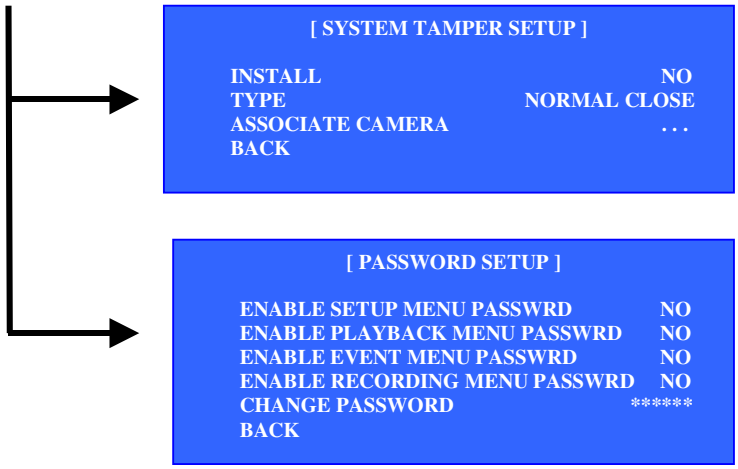
The system setup and operation of ***Tele*Eye *III+* VXB** is controlled through menus. The overall menu tree is shown in the following diagram. The function of each menu will be explained later in this section.



Menu Operation *(Support BS8418)*



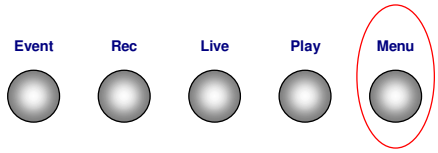
Menu Operation *(Support BS8418)*



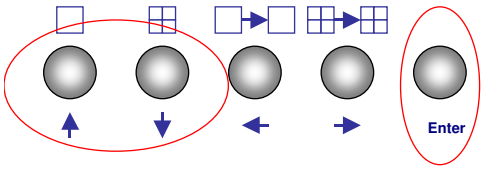
Menu Operation *(Support BS8418)*

Main Menu

1. Press the **[Menu]** button to pop up the main menu



2. Using the **[up/down arrow]** button to select a sub-menu



3. A selected sub-menu item will be pointed by a hand cursor and highlighted

4. Press **[Enter]** button to confirm the selection and pop up the sub-menu

5. The main menu contains the following items

DISPLAY SETUP	: Change camera, live video and OSD related settings
ALARM SETUP	: Change alarm related settings
SWITCH SETUP	: Change relay switch related settings
RECORDING SETUP	: Change recording related settings
TRANSMITTER SETUP	: Change the transmitter general and network settings
EVENT SETUP	: Change event, and event related settings
ARM DISARM SETUP	: Change arm disarm related settings
SECURITY SWITCH SETUP	: Change *security switch related settings
POWER FAILURE SETUP	: Change power failure related settings

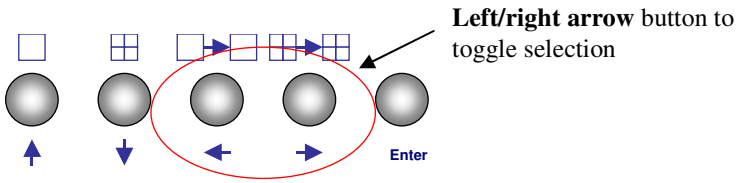
Menu Operation *(Support BS8418)*

SYSTEM TAMPER SETUP : Change system tamper related settings
PASSWORD SETUP : Change system password settings
EXIT : Exit the main menu

(*please refer to glossary)

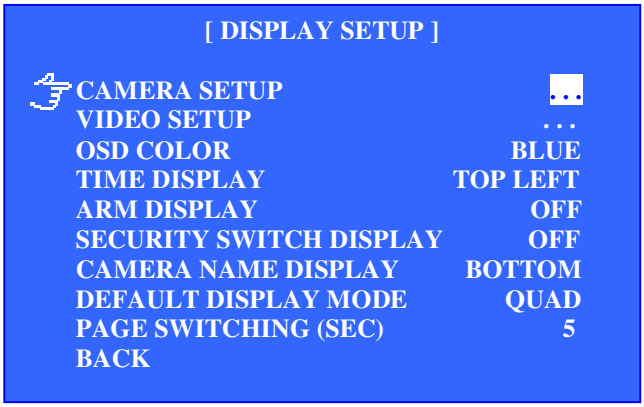
6. Menu item ended with **[. . .]** indicates sub-menu exist. You can always press the **[Enter]** button to pop up the sub-menu

7. If menu item not ended with **[. . .]** but provides selection, you can always press the **[left/right arrow]** button to toggle the selections



8. In menu operation mode, the **[Menu]** button act as a "Back" button, you can press the **[Menu]** button back to previous menu

Display Setup Menu



The display setup menu contains the following items

CAMERA SETUP	: Change camera name, camera install
VIDEO SETUP	: Change video brightness, contrast and color format
OSD COLOR	: Change OSD color
TIME DISPLAY	: Change the position of time display on OSD
ARM DISPLAY	: Change the position of arm disarm display on OSD
SECURITY SWITCH DISPLAY	: Change the position of security switch display on OSD
CAMERA NAME DISPLAY	: Change the position of camera name on OSD
DEFAULT DISPLAY MODE	: Change display mode on OSD
PAGE SWITCHING (SEC)	: Change the page switching time
BACK	: Back to previous menu

Alarm Setup Menu

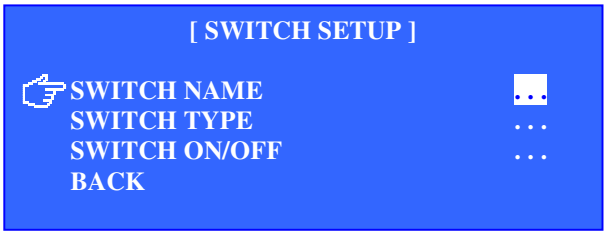
Menu Operation *(Support BS8418)*

The alarm setup menu contains the following items

ALARM NAME	: Change alarm port name
ALARM INSTALLED	: Change installed alarms
ALARM TYPE	: Change alarm type, normal close or normal open
ALARM TAMPER TYPE	: Change alarm tamper setting, dual end of line, single end of line or without tamper.
ENTRY EXIT DELAY SETUP	: Change the duration of *entry or *exit delays after arm/disarm enable
FIRE ZONE SETUP	: Change installed *fire zone alarm
ALARM ASSOCIATE CAMERA	: Change alarm associate camera for alarm recording
BACK	: Back to previous menu

(* please refer to glossary)

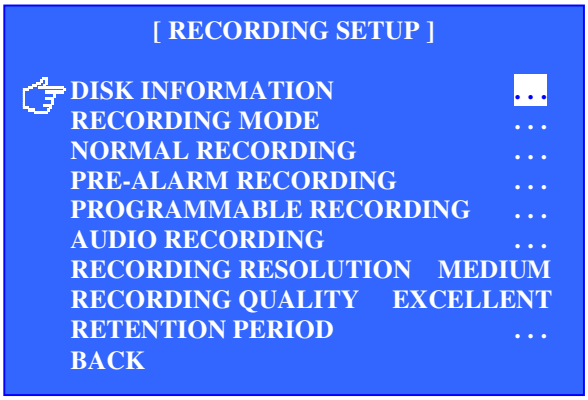
Switch Setup Menu



The switch setup menu contains the following items

SWITCH NAME	: Change relay switch name
SWITCH TYPE	: Change relay switch type
SWITCH ON/OFF	: Manually control the switch to ON/OFF state
BACK	: Back to previous menu

Recording Setup Menu

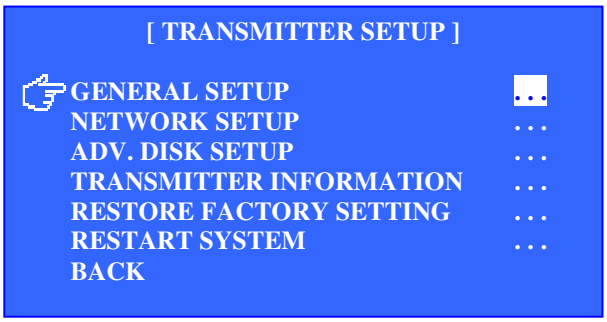


Menu Operation *(Support BS8418)*

The recording setup menu contains the following items

DISK INFORMATION	: Report the hard disk information
RECORDING MODE	: Select the fix or cyclic recording mode
NORMAL RECORDING	: Change normal recording enabled cameras
PRE-ALARM RECORDING	: Change settings of programmable recording
PROGRAMMABLE RECORDING	: Enable/Disable pre-alarm recording
AUDIO RECORDING	: Change settings of audio recording
RECORDING RESOLUTION	: Change recording resolution
RECORDING QUALITY	: Change recording quality
RETENTION PERIOD	: Change recording retention period
BACK	: Back to previous menu

Transmitter Setup Menu



The transmitter setup menu contains the following items

GENERAL SETUP	: Change general settings such as date/time, modem port
NETWORK SETUP	: Change network type setting such as IP address, port
ADV. DISK SETUP	: Hard disk scanning and formatting tools
TRANSMITTER INFORMATION	: Show the transmitter information
RESTORE FACTORY SETTING	: Restore the factory setting
RESTART SYSTEM	: Restarting the system
BACK	: Back to previous menu

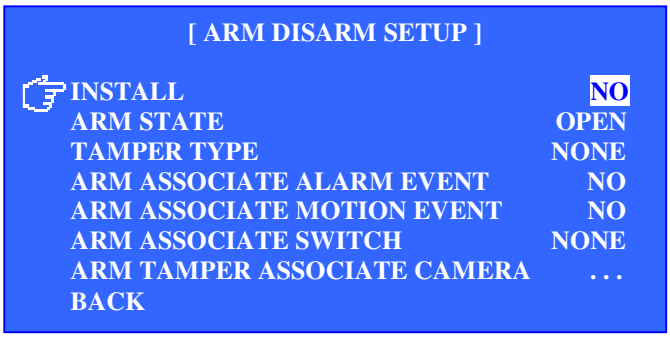
Menu Operation *(Support BS8418)*

Event Setup Menu

The event setup menu contains the following items

ALARM EVENT	: Change alarm event associated actions
MOTION EVENT	: Change motion event associated actions
VIDEO LOSS EVENT	: Change video loss event associated actions
DISK FULL EVENT	: Change disk full event associated actions
SYSTEM FAILURE EVENT	: Change system failure event associated actions
ARM DISARM TAMPER EVENT	: Change arm disarm tamper event associated actions
SECURITY SWITCH TAMPER EVENT	: Change security switch tamper event associated actions
POWER FAILURE EVENT	: Change power failure event associated actions
SYSTEM TAMPER EVENT	: Change system tamper event associated actions
SYSTEM RESTART EVENT	: Change system restart event associated actions
MOTION CAMERA SETUP	: Enable/Disable motion detection for a particular camera
EVENT SWITCH SETUP	: Change relay switch type for event triggered actions
DIAL BACK SETUP	: Change dial back action settings
EMAIL SETUP	: Change Email action settings
BACK	: Back to previous menu

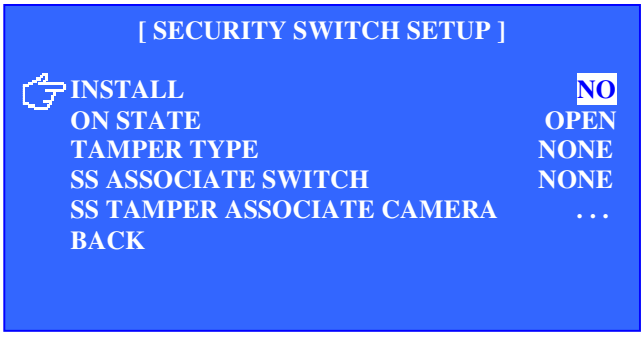
Arm Disarm Setup Menu



The arm/disarm setup menu contains the following items

INSTALL	: Enable/Disable the arm disarm function
ARM STATE	: Change arm/disarm state type
TAMPER TYPE	: Change the arm disarm tamper setting, dual end of line, single end of line or without tamper
ARM ASSOCIATE ALARM EVENT	: Change arm associated with alarm event
ARM ASSOCIATE MOTION EVENT	: Change arm associated with motion event
ARM ASSOCIATE SWITCH	: Change arm associated with switch event
ARM TAMPER ASSOCIATE CAMERA	: Change arm tamper associated with camera event
BACK	: Back to previous menu

Security Switch Setup Menu



The security switch setup menu contains the following items

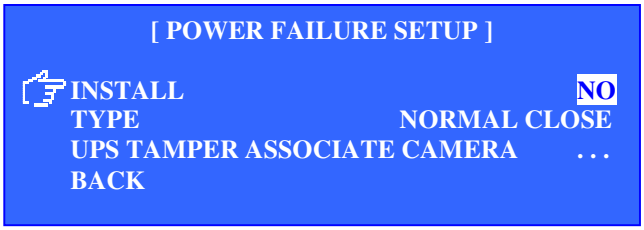
INSTALL	: Enable/Disable the security switch function
ON STATE	: Change security switch state type
TAMPER TYPE	: Change security switch tamper setting, dual end of line,

Menu Operation *(Support BS8418)*

single end of line or without tamper

SS ASSOCIATE SWITCH : Change security switch associated with switch event
SS TAMPER ASSOCIATE CAMERA : Change security switch associated with camera event
BACK : Back to previous menu

Power Failure Setup Menu



The power failure setup menu contains the following items

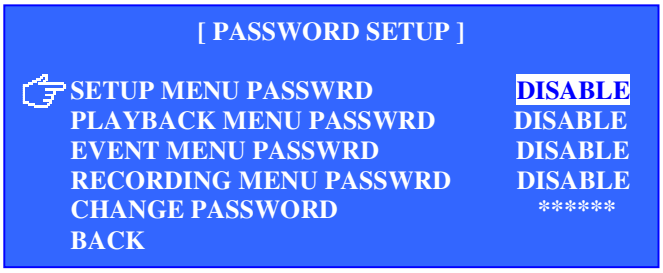
INSTALL : Enable/Disable the power failure function
TYPE : Change power failure type, normal close or normal open
UPS ASSOCIATE CAMERA : Change power failure associated with camera event
BACK : Back to previous menu

System Tamper Setup Menu

The system tamper setup menu contains the following items

INSTALL : Enable/Disable the system tamper function
TYPE : Change system tamper type, normal close or normal open
SYSTEM TAMPER ASSOCIATE CAMERA : Change system tamper associated with camera event
BACK : Back to previous menu

Password Setup Menu



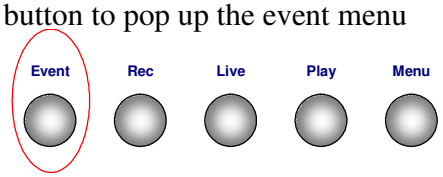
The password setup menu contains the following items

SETUP MENU PASSWORD	: Enable/disable setup menu password
PLAYBACK MENU PASSWORD	: Enable/disable playback menu password
EVENT MENU PASSWORD	: Enable/disable event menu password
RECORDING MENU PASSWORD	: Enable/disable recording menu password
CHANGE PASSWORD	: Change to a new password
BACK	: Back to previous menu

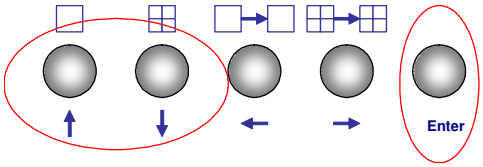
Support BS8418

Event Menu

1. Press the **[Event]** button to pop up the event menu



2. Using the **[up/down arrow]** button to select a sub-menu



3. A selected sub-menu item will be pointed by a hand cursor and highlighted

4. Press **[Enter]** button to confirm the selection and pop up the sub-menu

5. The Event menu contains the following items

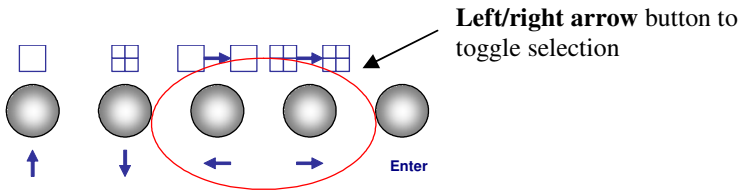
EVENT STATUS	: Show event status and related event log records
ALARM LOG	: Show the alarm log records (per day)
MOTION LOG	: Show the motion log records (per day)
VIDEO LOSS LOG	: Show the video loss log records (per day)
DISK FULL LOG	: Show the disk full log records (per day)
SYSTEM FAILURE LOG	: Show the system failure log records (per day)
SYSTEM TAMPER LOG	: Show the system tamper log records (per day)

Menu Operation *(Support BS8418)*

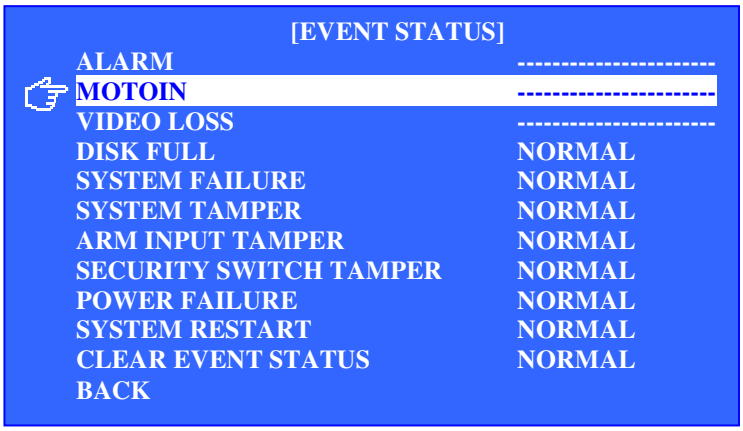
ARM INPUT TAMPER	: Show the arm input tamper log records (per day)
SECURITY SWITCH TAMPER LOG	: Show the security switch tamper log records (per day)
POWER FAILURE LOG	: Show the power failure log records (per day)
RESTART LOG	: Show the system restart log records (per day)
CONNECTION LOG	: Show the connection log records (per day)
OPERATION LOG	: Show the operation log records (per day)
SYSTEM SETTING LOG	: Show system setting log records (per day)
EXIT	: Exit the EVENT menu

6. Playback item ended with **[. . .]** indicates sub-menu exist. You can always press the **[Enter]** button to pop up the sub-menu

7. If playback item not ended with **[. . .]** but provides selection, you can always press the **[left/right arrow]** button to toggle the selections



Event Status



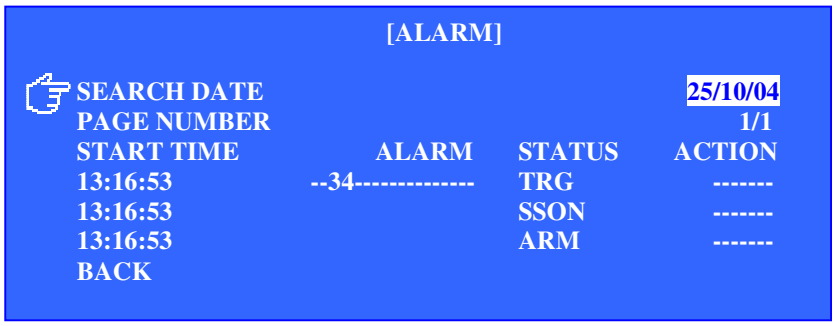
The event status contains the following items

ALARM	: Show the alarm status
MOTION	: Show the motion status
VIDEO LOSS	: Show the video loss status
DISK FULL	: Show the hard disk status
SYSTEM FAILURE	: Show the system status
SYSTEM TAMPER	: Show the system tamper status

Menu Operation *(Support BS8418)*

ARM INPUT TAMPER : Show the arm input tamper status
SECURITY SWITCH TAMPER : Show the security switch tamper status
POWER FAILURE : Show the power status
SYSTEM RESTART : Show the system restart
CLEAR EVENT STATUS : Clear event status flag
BACK : Back to previous menu

Alarm Log Menu



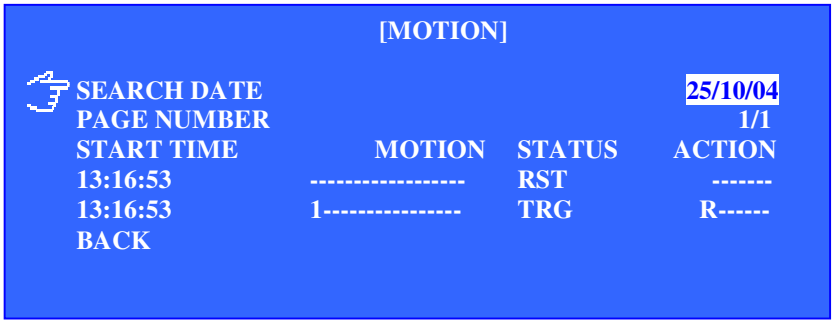
The alarm log menu contains the following items

SEARCH DATE : Search the alarm log by date
PAGE NUMBER : Show the number of page found
START TIME/ALARM/STATUS : Show the start time, alarm on,
ACTION alarm status and alarm associate event action
BACK : Back to previous menu

There is a STATUS column which represents the status of the alarm. The full name of each status is shown below.

TRG = Trigger
SSON = Security Switch on
ARM = Arm
EXTA = Exit arm
ENTA = Entry arm
RST = Reset

Motion Log



The motion log menu contains the following items

SEARCH DATE	: Search the alarm log by date
PAGE NUMBER	: Show the number of page found
START TIME/MOTION/STATUS	: Show the start time, motion, motion
ACTION	status and event action
BACK	: Back to previous menu

Remarks : The motion detection system is updated the reset log provided that it does not detect any changing for continuous 10 seconds.

Video Loss Log

The video loss log menu contains the following items

SEARCH DATE	: Search the alarm log by date
PAGE NUMBER	: Show the number of page found
START TIME/VIDEO LOSS	: Show the start time, video loss,
/STATUS/ACTION	status and event action
BACK	: Back to previous menu

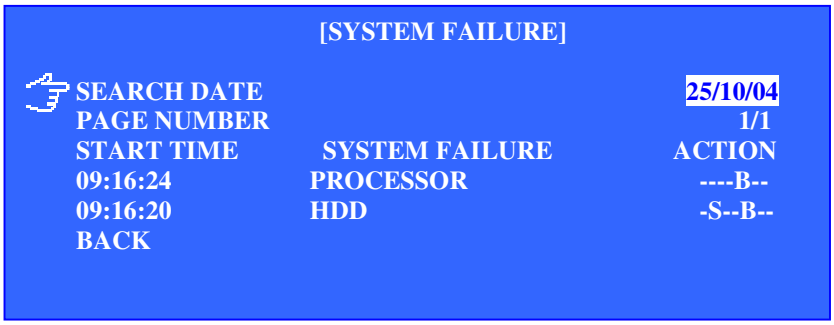
Menu Operation *(Support BS8418)*

Disk Full Log

The disk full log menu contains the following items

SEARCH DATE : Search the alarm log by date
PAGE NUMBER : Show the number of page found
START TIME/DISK FULL /ACTION : Show the start time, disk full and event action
BACK : Back to previous menu

System Failure Log



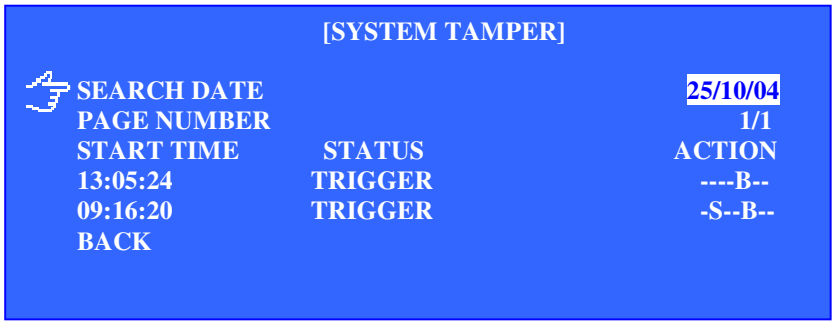
The system failure log menu contains the following items

SEARCH DATE : Search the alarm log by date
PAGE NUMBER : Show the number of page found
START TIME/SYSTEM FAILURE /ACTION : Show the start time, system failure and event action
BACK : Back to previous menu

Menu Operation *(Support BS8418)*

PROCESSOR means that checking DSP processor is failed and HDD means that checking hard disk is failed. The reason for hard disk failure may be due to the poor connection or missing the hard disk. User should check these carefully in order to prevent any careless failure.

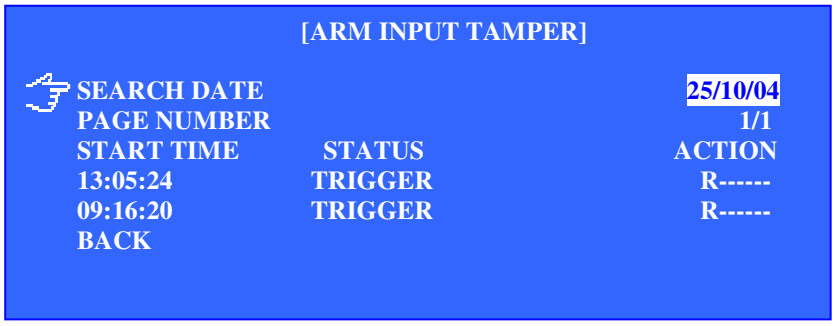
System Tamper Log



The system tamper log menu contains the following items

SEARCH DATE : Search the alarm log by date
PAGE NUMBER : Show the number of page found
START TIME/SYSTEM TAMPER /ACTION : Show the start time, system tamper and event action
BACK : Back to previous menu

Arm Input Tamper Log



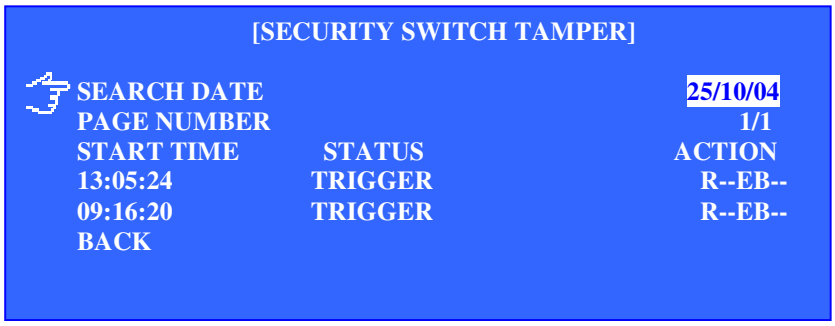
The arm input tamper log menu contains the following items

SEARCH DATE : Search the alarm log by date
PAGE NUMBER : Show the number of page found
START TIME/STATUS /ACTION : Show the start time, status and event action

Menu Operation *(Support BS8418)*

BACK : Back to previous menu

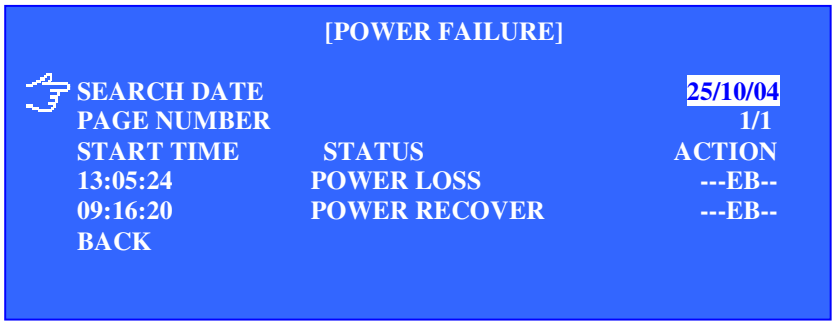
Security Switch Tamper Log



The security switch tamper log menu contains the following items

SEARCH DATE : Search the alarm log by date
PAGE NUMBER : Show the number of page found
START TIME/STATUS /ACTION : Show the start time, status event action
BACK : Back to previous menu

Power Failure Log

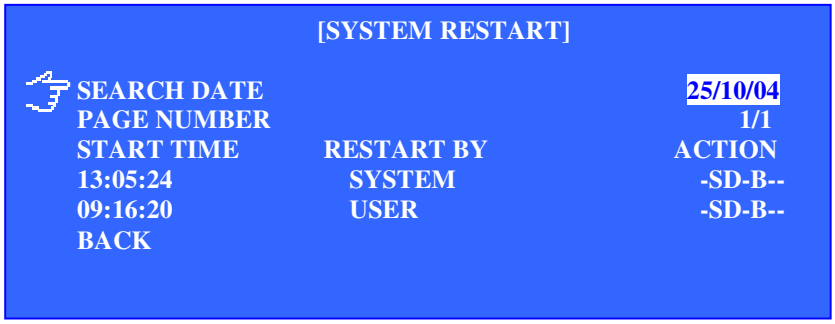


The power failure log menu contains the following items

SEARCH DATE : Search the alarm log by date
PAGE NUMBER : Show the number of page found
START TIME/STATUS /ACTION : Show the start time, status and event action
BACK : Back to previous menu

Menu Operation *(Support BS8418)*

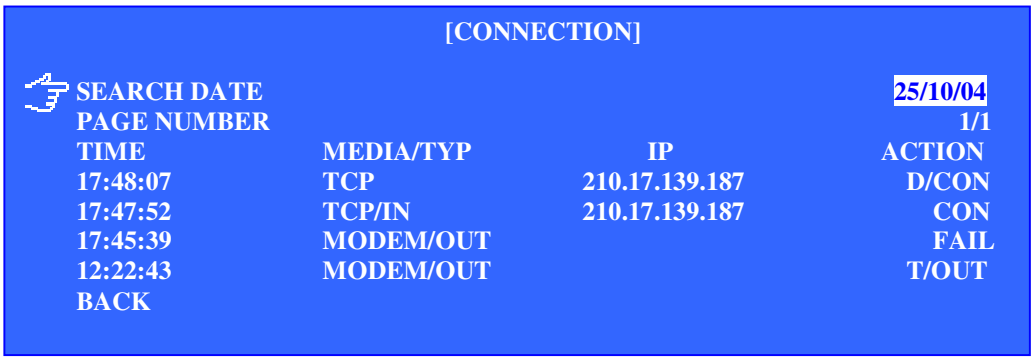
System Restart Log



The restart log menu contains the following items

SEARCH DATE	: Search the alarm log by date
PAGE NUMBER	: Show the number of page found
START TIME/RESTART /ACTION	: Show the start time, system restart and event action
BACK	: Back to previous menu

Connection Log



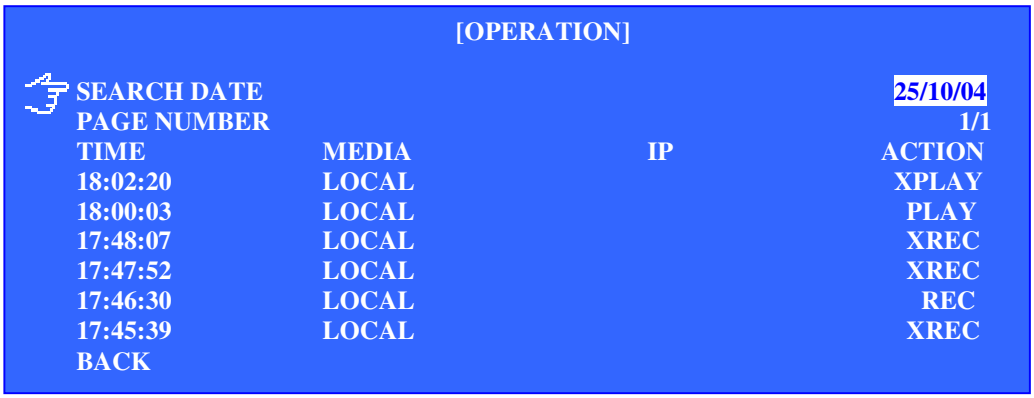
The connection log menu contains the following items

SEARCH DATE	: Search the alarm log by date
PAGE NUMBER	: Show the number of page found
TIME/MEDIA /IP/ACTION	: Show the time, **media, IP address and event action
BACK	: Back to previous menu

**User can connect the system via TCP or modem

Menu Operation *(Support BS8418)*

Operation Log

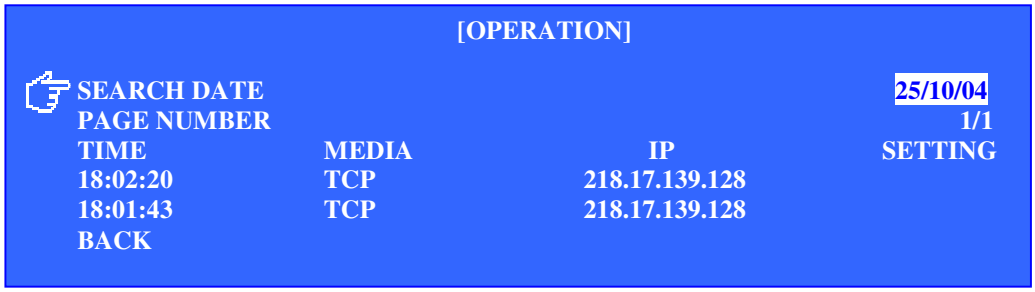


The operation log menu contains the following items

SEARCH DATE	: Search the alarm log by date
PAGE NUMBER	: Show the number of page found
TIME/MEDIA/IP /ACTION	: Show the time, media, IP address and event action
BACK	: Back to previous menu

PLAY = start playing
XPLAY = stop playing
REC = start recording
XREC = stop recording

System Setting Log



The system setting log menu contains the following items

SEARCH DATE	: Search the alarm log by date
PAGE NUMBER	: Show the number of page found
TIME/MEDIA/IP /SETTING	: Show the time, media and IP address setting

Menu Operation *(Support BS8418)*

BACK : Back to previous menu

Finally, there are total 260,000 logging spaces for each item. If all the spaces are fully occupied, the system will be cyclic the oldest logging space for storing a new log. The method to clear all records is to format the hard disk.

SECTION 5

HARD DISK INSTALLATION AND FORMATTING

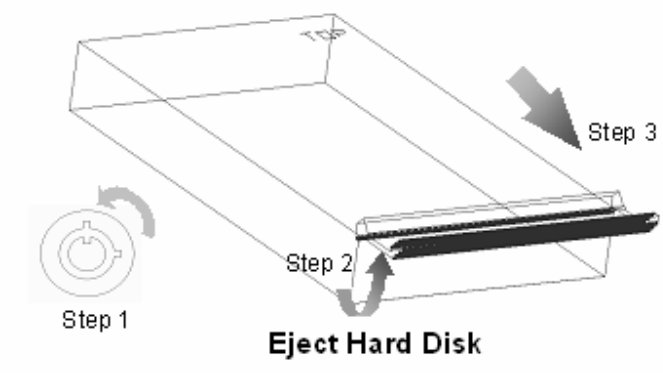
Installation of Hard Disk

If you want to change the hard disk of ***Tele*Eye *III+* VXB**, you need to do the hard disk installation procedure. ***Tele*Eye *III+* VXB** support ATA standard hard disk, it is highly recommended that you use the hard disk listed at the end of this section.

CAUTION: The Hard Disk should be set to MASTER MODE.

Procedures:

1. Remove the hard disk rack as illustrated in the following diagram



Eject Hard Disk

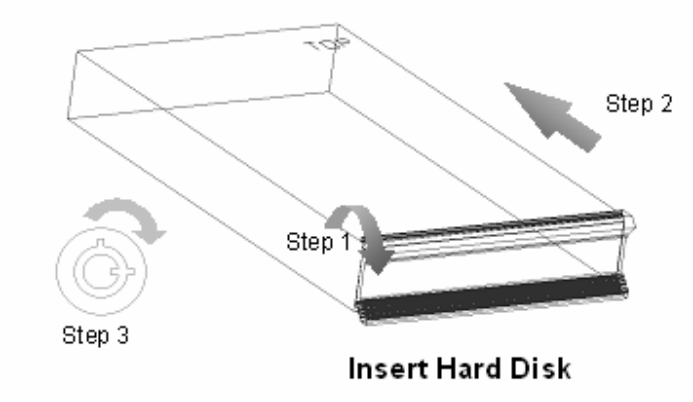
2. Open the cover of the hard disk cartridge provided by ***Tele*Eye**, you will see a power cable and a 80-pin IDE cable

3. Plug the power cable and the 80-pin IDE cable to the hard disk, and insert the hard disk into the rack

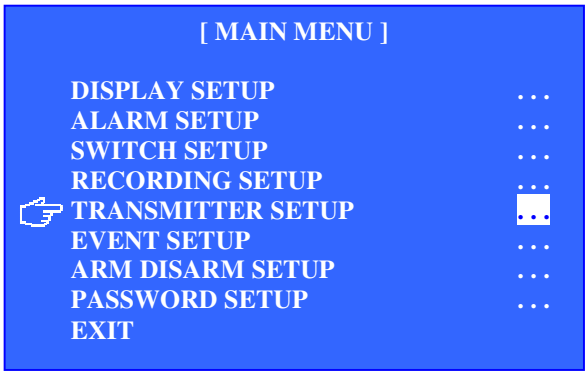
4. Fix the position of hard disk on the rack by fasten the screws

5. Cover the hard disk rack, and insert the hard disk into ***Tele*Eye *III+* VXB**

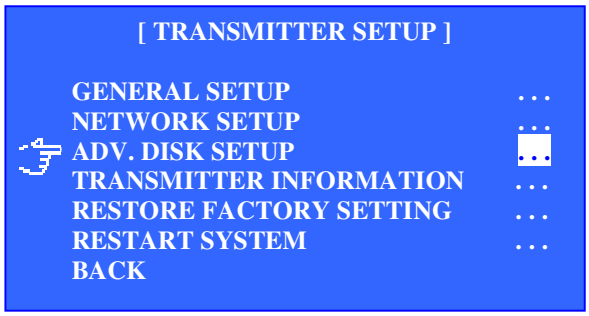
6. Lock the Key Lock. Configure the ***TeleEye III+*** **VXB** with local display as described in previous sections, and then switch the power on



7. Press the **[Menu]** button to pop up the **[MAIN MENU]** on the screen. Select **[TRANSMITTER SETUP]** and press **[Enter]** button, the following menu will be shown

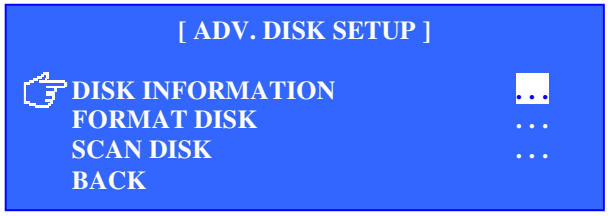


8. Select **[ADV. DISK SETUP]** using the up/down arrow button and the press **[Enter]** button to enter the sub-menu

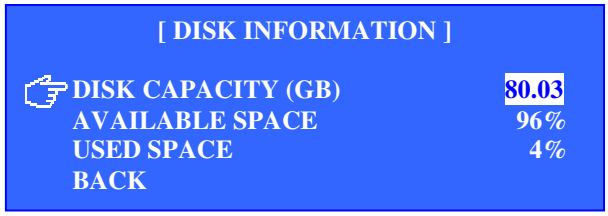


Hard Disk Installation and Formatting

9. Select **[DISK INFORMATION]** item



10. Press **[Enter]** button, you will get the hard disk information as follow



11. If you installed the hard disk properly, the item **[DISK CAPACITY]** should match with the capacity specification of the hard disk roughly

Hard Disk Formatting

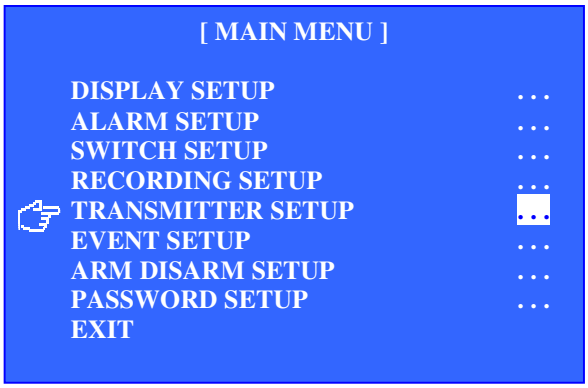
Hard disk formatting will reconstruct the structure of hard disk so that it is readable by ***TeleEye III+* VXB**. If you have your own hard disk to install to ***TeleEye III+* VXB**, you must perform hard disk formatting.

It will be used in the following cases:

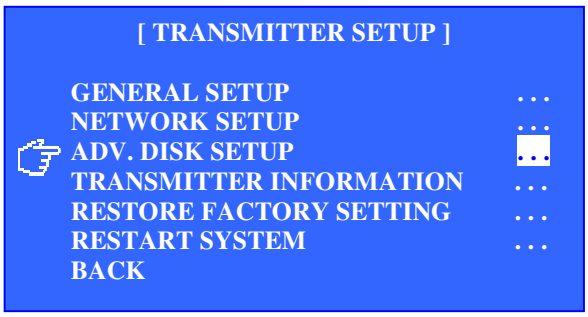
1. A new hard disk you just brought
2. No recorded video can be played
3. You want to format the hard disk so as to have a clean recording space, redeem the file allocation.

Procedures:

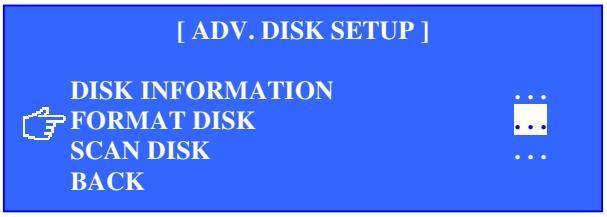
1. Press the **[Menu]** button to pop up the **[MAIN MENU]** on the screen and select **[TRANSMITTER SETUP]**



2. Select **[ADV. DISK SETUP]** using the up/down arrow button



3. Press [**Enter**] button to enter the sub-menu as follows



4. Select the [**FORMAT DISK**] item, and press [**Enter**] button to confirm the selection. A message box will pop up as follows

5. Use left/right arrow button to select [**YES**] and press [**Enter**] button, the system will start formatting. The following information will show on OSD

Note: Having confirmed the hard disk formatting, all your data on the hard disk will be lost.

6. Upon completion of hard disk formatting, the following message box will pop up

Hard Disk Scanning

It has similar function to the **SCAN DISK** provided by the Operating System of your personal computer. It is easy to understand why and when you will use it. Our ***TeleEye III+* VXB** provides this function so as to rescue the hard disk when errors found, and to enhance its performance and reliability. After scanning, the damaged files will be deleted so that the remaining normal videos can be seen.

It will be used in the following cases:

1. You cannot playback the recorded videos

2. You cannot search the desired video from the recording log. Or although you can find it, you cannot play it

3. You wonder if the hard disk has problem

Procedures:

1. Press the **[Menu]** button to pop up the **[MAIN MENU]** on the screen. Select **[TRANSMITTER SETUP]** -> **[ADV. DISK SETUP]**, and then press the **[Enter]** button to pop up the following sub-menu

2. Select the **[SCAN DISK]** item, and press **[Enter]** button to confirm the selection. A message box will pop up as follow

3. Use **left/right arrow** button to select **[YES]** and press **[Enter]** button, the system will start scanning. The following information will be shown on OSD

4. Upon completion of hard disk scanning, the following message box will pop up

Recommended Hard Disk List

Harddisk Capacity	Product Line	Model No.
20GB	Maxtor FireBall 3 (5400 RPM)	2F020J0
	Maxtor DiamondMax Plus 8 (7200 RPM)	6E020L0
	Western Digital Protégé Value (5400 RPM)	WD200EB
40GB	Maxtor FireBall 3 (5400 RPM)	2F040J0
	Maxtor DiamondMax Plus 8 (7200 RPM)	6E040L0
	Western Digital Caviar High-Performance (7200 RPM)	WD400BB
	Western Digital Protégé Value (5400 RPM)	WD400EB
80GB	Maxtor DiamondMax Plus 9 (7200 RPM)	6Y080L0
	Maxtor DiamondMax 16 (5400 RPM)	4R080L0
	Western Digital Caviar Mainstream (5400 RPM)	WD800AB
160GB	Maxtor DiamondMax Plus 9 (7200 RPM /8Mb cache)	6Y160P0
	Maxtor DiamondMax Plus 9 (7200 RPM /2Mb cache)	6Y160L0
	Maxtor DiamondMax 16 (5400 RPM)	4A160J0
	Western Digital Caviar High-Performance (7200 RPM /2Mb cache)	WD1600BB
	Western Digital Caviar Special Edition (7200 RPM /8Mb cache)	WD1600JB
250GB	Maxtor MaxLine Plus II (7200 RPM /8Mb cache)	7Y250P0
	Maxtor MaxLine II (7200 RPM /2Mb cache)	5A250J0
	Western Digital Caviar Special Edition (7200 RPM /8Mb cache)	WD2500JB

SECTION 6

USING BUILT-IN WEB SERVER

Enable the Built-In Web Server

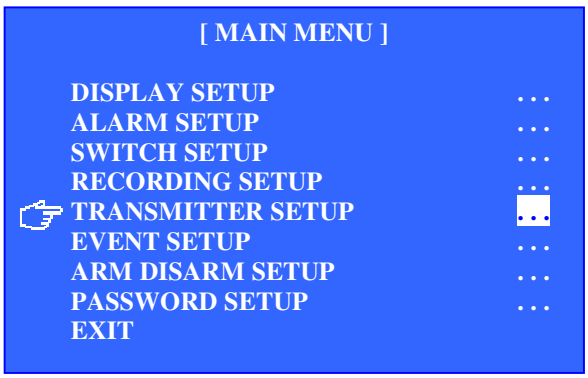
PC recommendations:

- 128MB RAM
- Netscape 6.1 or Internet Explorer 5.5 or above
- Any OS platform with web browser and Java Support

Before using the web service, you have to enable the Built-in Web Server feature. Follow the steps below to configure ***TeleEye III+*** **VXB** for using web feature.

Procedures:

7. Press the **[Menu]** button to pop up the **[MAIN MENU]** on the screen. Select **[TRANSMITTER SETUP]** and press **[Enter]** button, the following menu will be shown

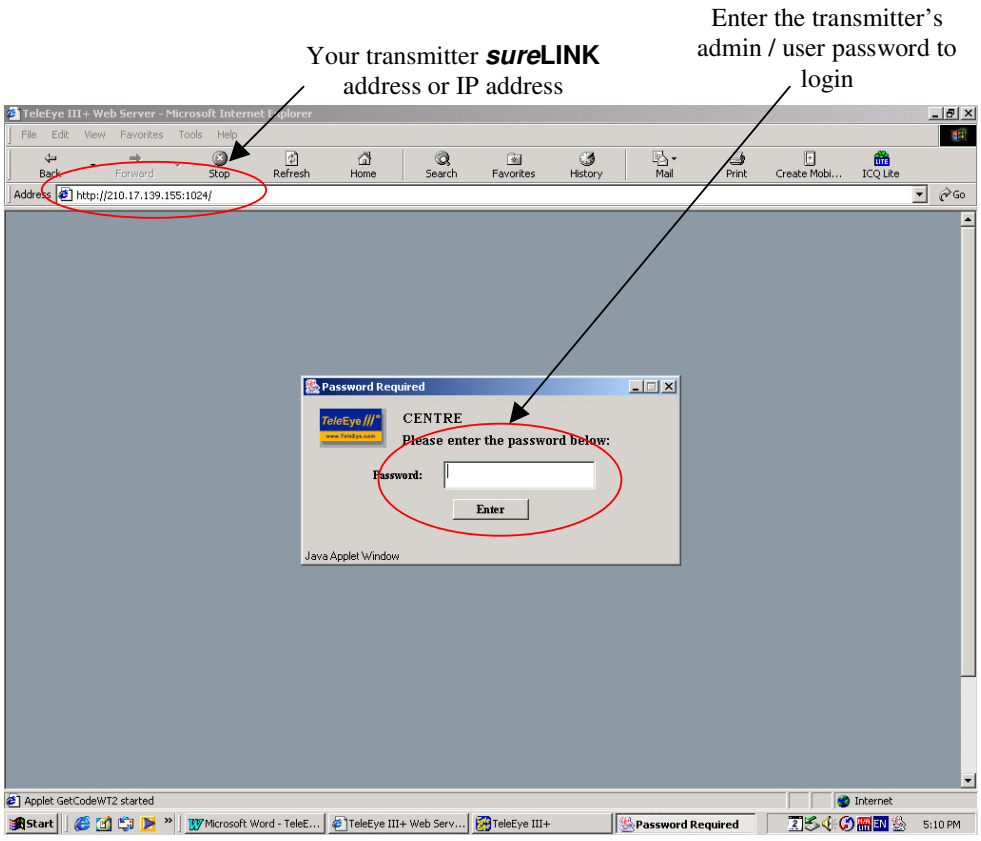


8. Select the **[NETWORK SETUP]** item, press **[Enter]** button to confirm the selection

9. Use **up/down arrow** button to select the **[BUILT-IN WEB SERVER]** item, and use **left/right arrow** button to select **[ENABLED]**. Now the built-in web server is enabled

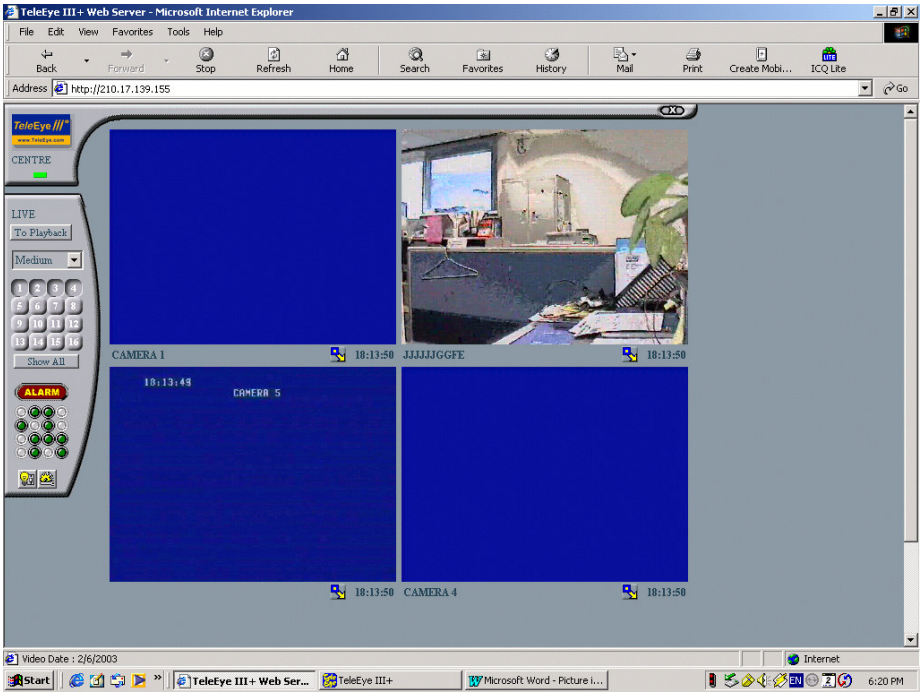
Connecting to the Web Server

In your browser, type the ***sure*LINK** address of your transmitter, eg.http://www.hkpublic.teleeye.teleeye.net or simply IP address of the transmitter, you will see a web site like:



Enter your transmitter login password and press **Enter** button. A new page will be displayed.

Using Built-In Web Server



You can choose the cameras by clicking the buttons on the left.

Note: If you have any problem on opening the page, please go to http://java.sun.com/getjava/download.html to update your Java VM.

Using Built-In Web Server

APPENDIX A

*sure*LINK TECHNOLOGY

***sure*LINK** technology is available in ***Tele*Eye *III+* VXB**, which enables you to connect to the transmitter with broadband dynamic IP connection. If you can only use broadband dial-up account to connect to the Internet through your computer, ***sure*LINK** provides a solution for sharing the Internet connection between your computer and the transmitter.

***sure*LINK** is a group of additional functions, services and software provided for the transmitter so as to make it connect to the Internet in any connection methods. Such function can only be used if you have applied for this service. After you have done so, you also need to configure the transmitter to make ***sure*LINK** available. This section will help you to configure and use it.

By using of ***sure*LINK** technology, the powerful ***Tele*Eye *III+* VXB** can work on broadband Internet economically, a cost effective and convenient remote live video monitoring anytime and anywhere.

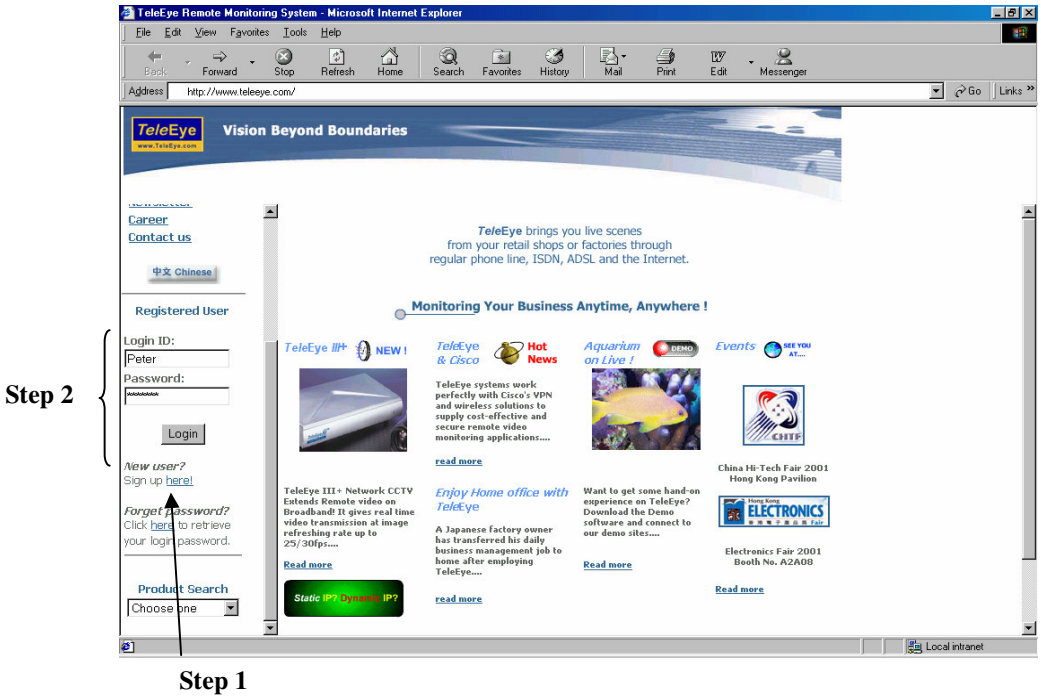
- ***sure*LINK Address**
  You can apply for a ***sure*LINK** address (domain name), such as *www.hkpublic.teleeye.teleeye.net,* for your transmitter. You can use this name to login or browse the built-in web server. One of the advantages is that you are not required to memorize the IP address (e.g. *210.177.50.156*) of the transmitter. Since the ***sure*LINK** address is fixed while the IP address may change periodically (in case when dynamic IP is used), you do not need to worry about the expiration of the IP address. The ***sure*LINK** address can also be used in transmitter web browsing to see live video on standard web browser (e.g. IE, Netscape), it will be discussed in Section 6.

- Refreshing Rate
  When ***sure*LINK** address feature is enabled, the transmitter will periodically update its current IP address to our database to ensure that the ***sure*LINK** address is always forwarded to a valid IP. You can set this update period at the using OSD

- DNS Services:
  Assigned when the transmitter can directly access the Internet without the help of ***Tele*Eye** Proxy Server

How to Apply for *sure*LINK Address

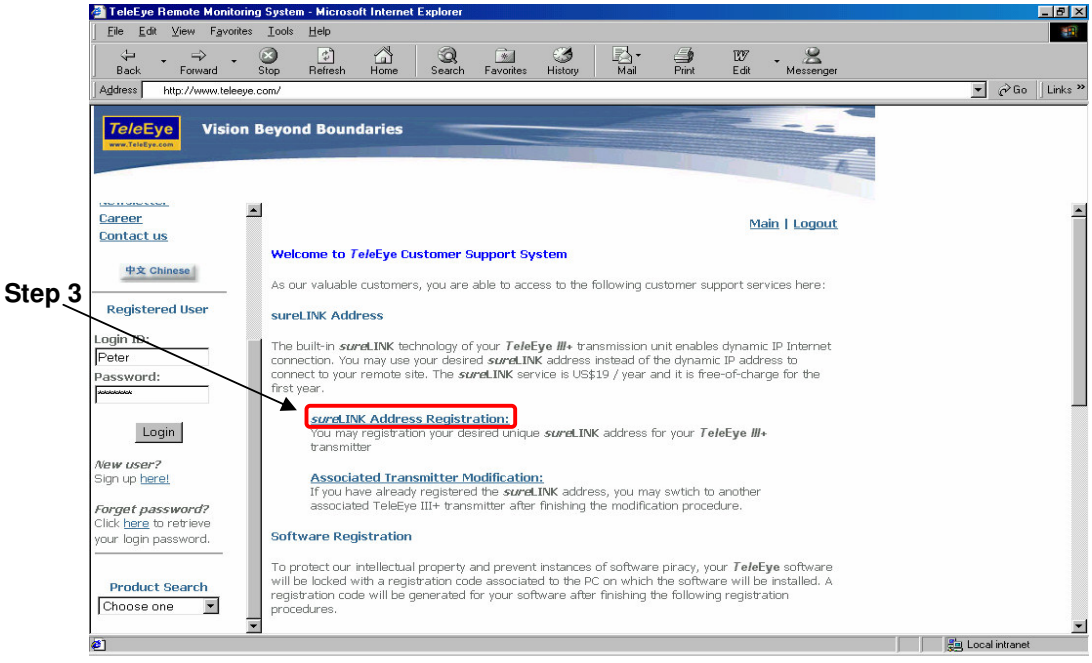
You can apply for ***sure*LINK** by visiting our web site at http://www.TeleEye.com



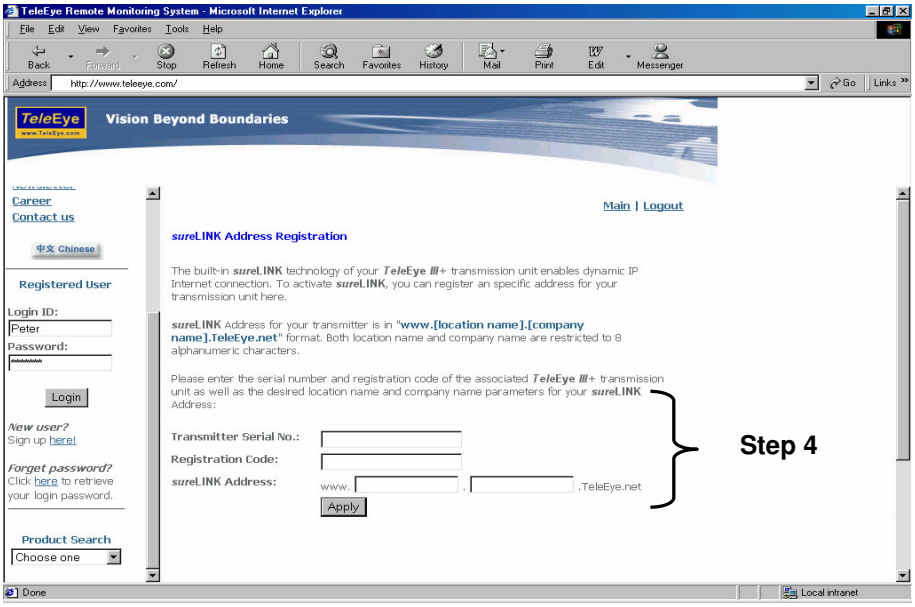
Step1: Sign up to create your user account

Step 2: Login the page using your registered name and password.

Step 3: Click ***sure*LINK Address Registration** button



***sure*LINK Technology**



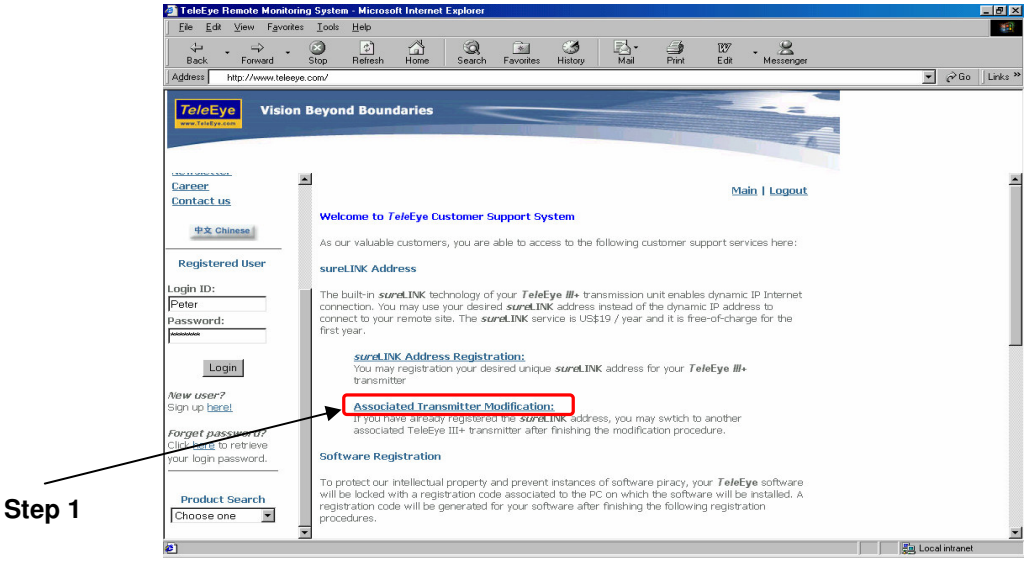
Step 4: Enter a ***sure*LINK** address (**Domain Name**), your **Transmitter Serial No.** and **Registration Code** in the fields provided respectively. Then click the **Apply** button. The process is then completed.

After we received your domain name registration for your transmitter, your application will be processed. Normally, it requires about 2 to 3 working days to activate ***sure*LINK** for your transmitter. You will receive a notification mail when your ***sure*LINK** service is ready.

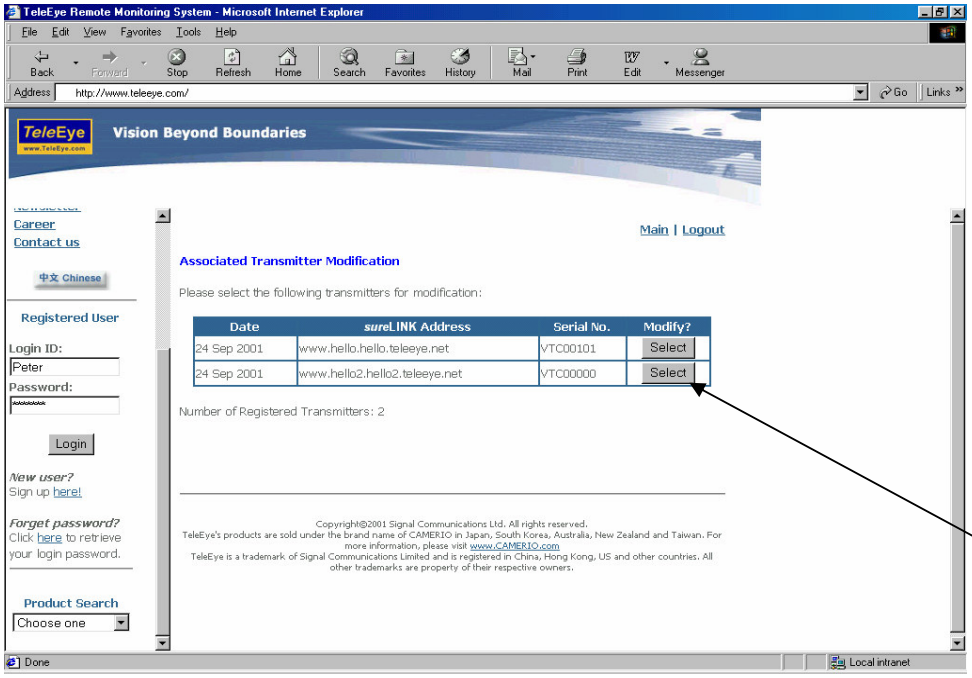
Transmitter Modification

Since the ***sure*LINK** (Domain name) address corresponds to a single transmitter, if you change from one transmitter to another one, you have to inform us to update our database record. To do this, you can visit our ***Tele*Eye** Product Support again and follow the steps below:

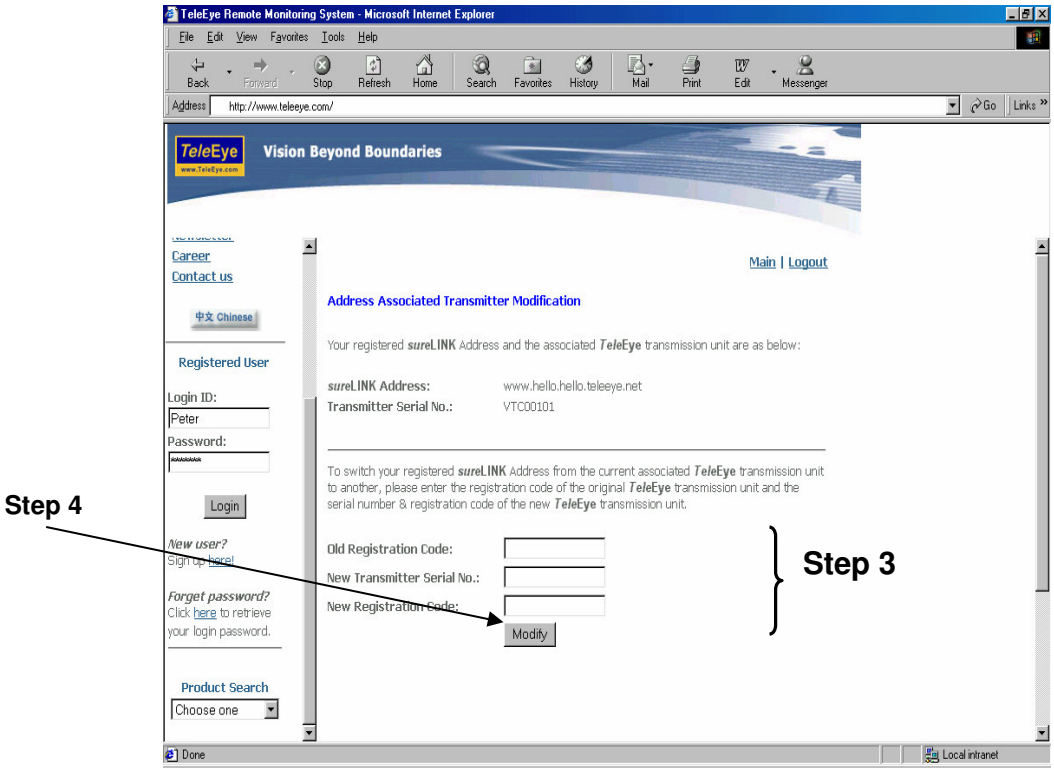
Step 1: Transmitter Modification > **Select** a ***sure*LINK** address (**Domain Name**) you want to modify



***sure*LINK Technology**



Step 2: Enter the **Old Registration Code**, **New Transmitter Serial Number** and **New Registration Code** at each field provided. Click Modify button to submit the form.


TeleEye Remote Monitoring System - Microsoft Internet Explorer
Vision Beyond Boundaries
Career
Contact us
中文 Chinese
Registered User
Login ID:
Peter
Password:
Login
New user?
Sign up here!
Forget password?
Click here to retrieve your login password.
Product Search
Choose one
Main | Logout
Address Associated Transmitter Modification
Your registered sureLINK Address and the associated TeleEye transmission unit are as below:
sureLINK Address: www.hello.hello.teleeye.net
Transmitter Serial No.: VTC00101
To switch your registered sureLINK Address from the current associated TeleEye transmission unit to another, please enter the registration code of the original TeleEye transmission unit and the serial number & registration code of the new TeleEye transmission unit.
Old Registration Code:
New Transmitter Serial No.:
New Registration Code:
Modify
Step 3
Step 4

If the above procedure is completed successfully, the ***sure*LINK** will be effective immediately.

*sure*LINK Technology

APPENDIX **B**

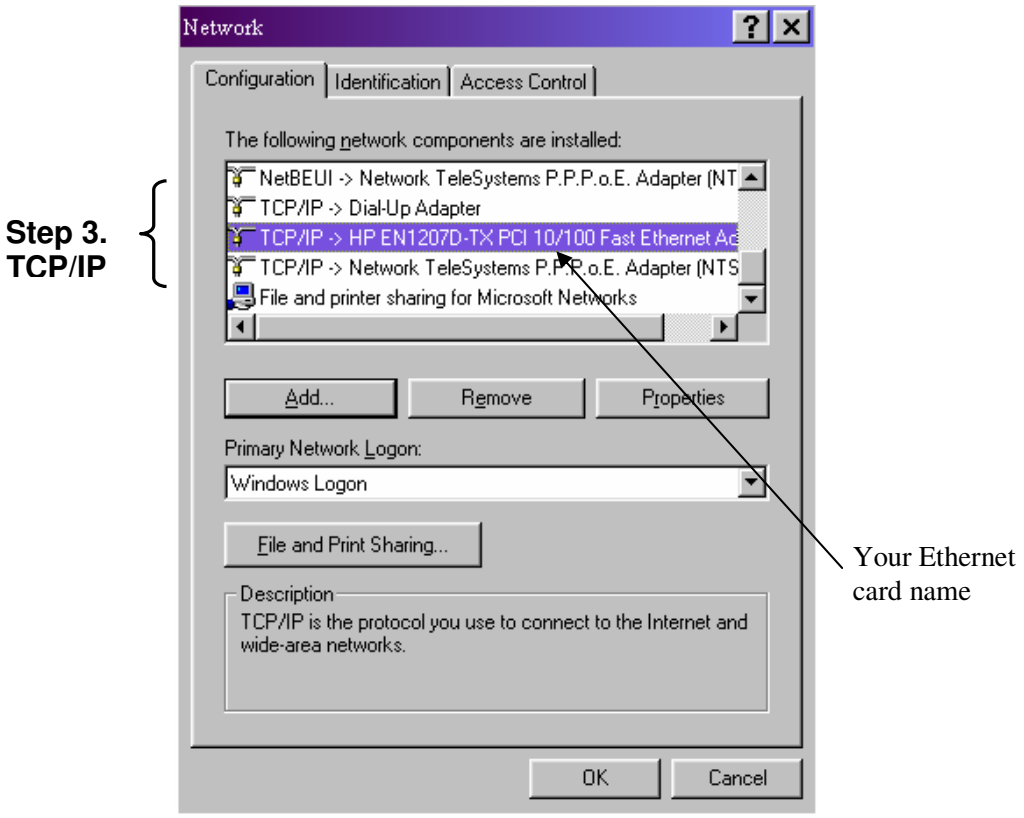
IP ADDRESS SETUP FOR PC

IP Address Setup for Windows 98/ME

The follow procedures will set your Ethernet Card IP address manually for your local LAN purpose. Note that these procedures will NOT affect your PC to get on the Internet. If you discover that you cannot be able to access on the Internet after applying the settings, you have to undo the settings or re-install the software provided by your ISP and retry the steps again.

Step 1: In Windows 98/ME desktop, select **Start** > **Settings** > **Control Panel**

Step 2: Double click **Network** > **Configuration**, you will find that there are at least 2 fields (usually 3 fields) started with "*TCP/IP ->*".

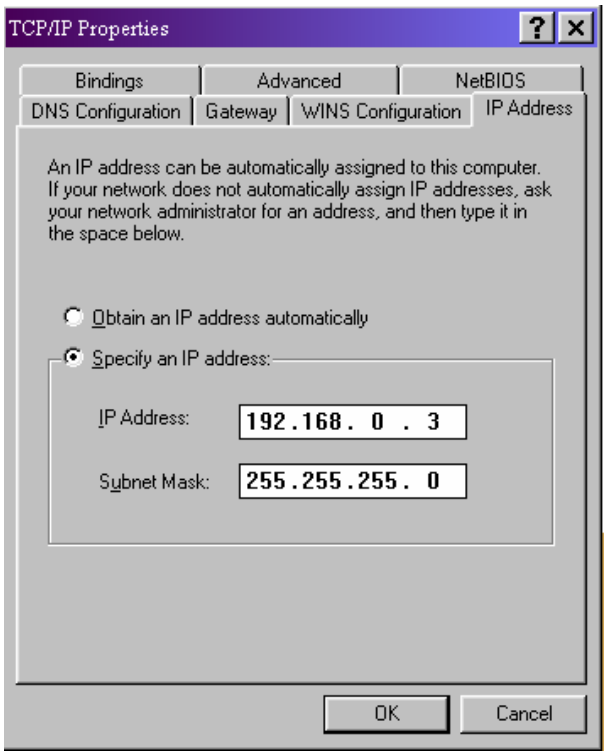


Two of them are very important for setup. One of them is used for your local Intranet (the field may contain the name of your Ethernet card), the other one is used for your broadband Internet connection. An example is shown in the following figure.

TCP/IP-> HP EN1207D-TX PCI 10/100 Fast Ethernet Adapter	Used for Intranet (local network)
TCP/IP-> Network TeleSystems P.P.P.o.E Adapter	Broadband Internet Access (Point-to-Point Protocol over Ethernet)

Note that the name of these two TCP/IP adapters may be different on your computer. You have to identify the purpose of each corresponding adapter.

Step 3: Choose **TCP/IP->[Your Ethernet card name]** > Click **Properties** > **IP address**, enter an IP address "*192.168.0.3*" and subnet mask "*255.255.255.0*"

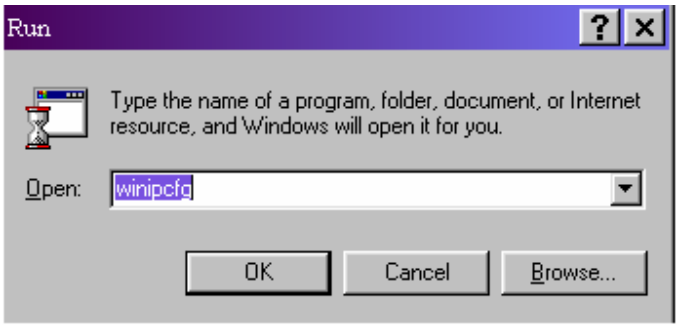


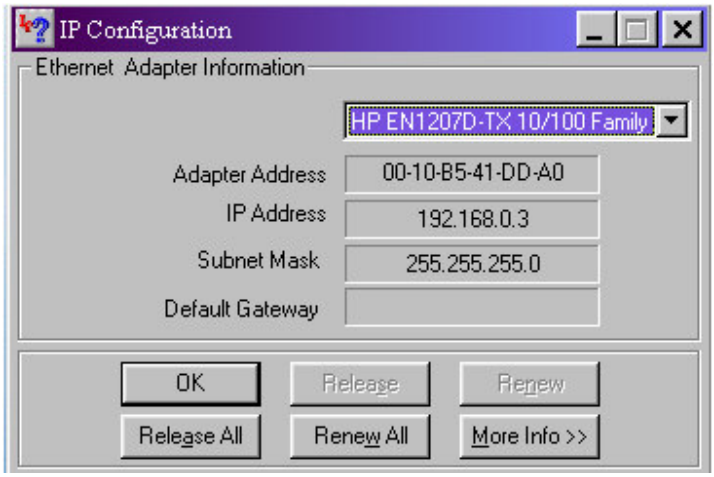
Step 4: Click **OK** and **OK** and reboot the computer.

Step 5: After booting, ensure that the computer can still be connected to the Internet.

Step 6: You have to confirm that IP address has been set on your computer. On your windows, click start **>** run**, type "***winipcfg***" at Open field and press** OK **button, then you will see a** IP Configuration **program shown as figure.**

IP Address Setup For PC





Step 7: Select your Ethernet card name on the field, you will see an **IP address** on the field. Ensure that that is the same as you have set before (i.e. 192.168.0.3). If it is not so, please repeat step 12. Click **OK** to close the program.

IP Address Setup For PC

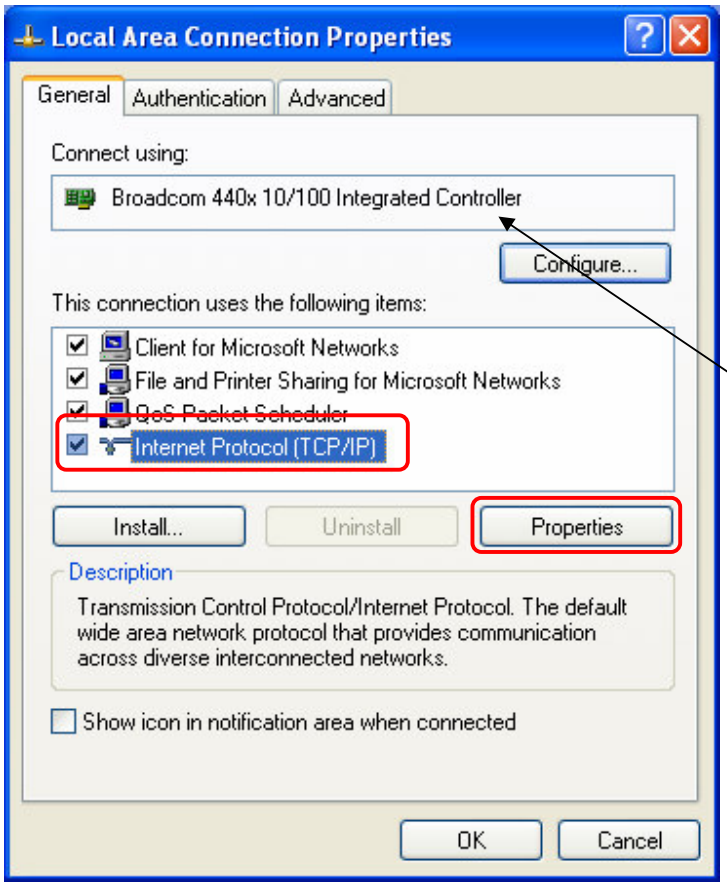
IP Address Setup for Windows NT/2000/XP

The follow procedures will set your Ethernet Card IP address manually for your local LAN purpose. Note that these procedures will NOT affect your PC's connection to the Internet. If you discover that you cannot be able to access to the Internet after applying the settings, you have to undo the settings or re-install the software provided by your ISP and retry the steps again.

Step 1: In Windows NT/2000/XP desktop, select **Start** > **Settings** > Control Panel

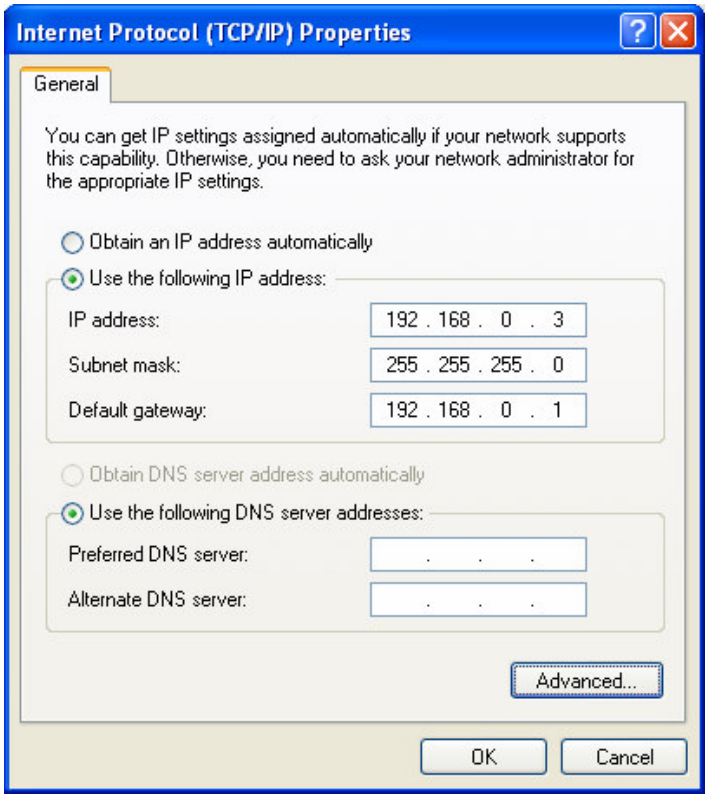
Step 2: Double click **Network and Dial-up Connections** > right click **Local Area Connections** and choose **Properties**.

Step 3: Choose **Internet Protocol (TCP/IP)** and click **Properties**



Step 4: Enter an **IP address, subnet mask** and **Default gateway**.

Step 5: Enter the **Preferred** and **Alternate DNS server**, if necessary.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 0 . 3
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 0 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

Step 6: Click **OK** to activate the new IP.

Step7: You have to confirm that IP address has been correctly set on your computer. On your windows, click **start > run**, type ***"cmd"*** at Open field and press **OK** button, then type ***"ipconfig"*** on the DOS prompt, you will see an IP set on your computer.

Router Configuration

Port Mapping in your Router

For PLANET Internet SOHO Router XRT-101 / XRT-711, please refer to its menu

6.1 Advanced Internet Features ->
Virtual Servers (Define servers on your LAN, so Internet users can access them)->
E.3 User-defined Virtual Servers

Suggested Data for router:

Name	*Tele*Eye
IP Address	192.168.0.2 (Your transmitter IP address)
Protocol	TCP
Internal Port No.	1024
External Port No.	1024

IP Address Setup For PC

APPENDIX C

GENERAL TERMS DISCUSSION

Before you start to configure the transmitter, you may need to know some of the terms and information used in the transmitter.

- **Registration Checking**
  Users need to do the registration in the Reception Software (e.g. WRS3-AD) for authorization before the transmitter can be used when such feature is enabled in the ***VXB***. This option can be applied to improve the security protection for the organization when higher security level is required. If the transmitter is decided to open for public use, you can disable this feature so that public users do not need to register for viewing live video from the reception software.

- **Video Mode**
  There are two sets of video resolution settings available in the transmitter. The **Speed** set offers **128x96**, **256x192** and **512x384** pixels while the **Quality** set offers **160x120**, **320x240** and **640x480** pixels. As the name indicated, the **Speed** set will increase the transmitter's video performance in speed while the **Quality** set in quality. You can only have one set being active during the transmitter's day-to-day operation. This setting should be configured during the installation of the transmitter. For ideal performance in speed, please choose the **Speed** option.
  Note that you cannot set the video performance at the client side software (i.e. WRS3-AD) which is used to monitor the site through the transmitter. Instead, you can only do so while configuring the transmitter which will be discussed in a later section of this manual.

- **Built-in Web Server**
  In order to view live video anywhere, at anytime, in the most convenient way, you can enable the ***Built-in Web Server*** so that any PCs connecting to the Internet can be your remote site without installing or configuring any software to monitor any places you want. In this case, when you go traveling or on trips, you can also view the site by just using web browser! No additional procedures or settings are needed and you can just type in the your site address (e.g. http://www.hkpublic.teleeye.teleeye.net/) in the web browser and view the site immediately. To see how to use this, please read section 6.

It is recommended that the above items should be configured before the first time you use the transmitter no matter which connection method you use. The steps to set the above items

will be discussed in **Transmitter Configuration** of different configuration under **System Configuration and Installation** section.

- **Site Monitoring Method**

  There are mainly four methods to link up with the transmitter to see videos:

  - Telephone Line (Null Modem/Public Telephone Network/ISDN)
  - TCP/IP in LAN
  - TCP/IP on the Internet using Broadband and Internet Router
  - TCP/IP on the Internet using Broadband with Dial-up Software

  You have to choose one of the **System Configuration Methods** in later section to configure ***VXB*** before use so as to make it function properly.

  The transmitter configuration program contains all the settings for different remote video monitoring method. Different connection methods may have different settings, and some of the setting configured in one connection method is not applicable to other method. In this case, you can refer to one of the following configuration procedures for the connection method you will use.

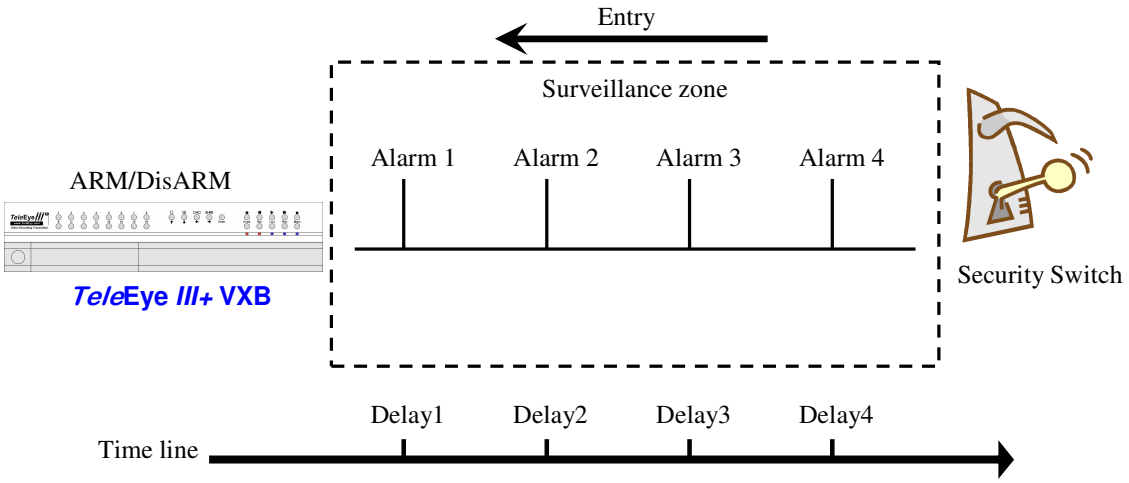
APPENDIX D
GLOSSARY

This part explains the special terms used in this manual.

Double End of Line (DEOL)
Tamper detection configuration (please refer to page 17)

Single End of Line (SEOL)
Tamper detection configuration (please refer to page 18)

Entry Delay



The entry delay is the period of time from entering the surveillance zone to the transmitter. In order to disarm the system for maintenance or repair, user / installer needs to turn off the security switch and enter the surveillance zone. However, the delay time starts from the 1st trigger by the 1st alarm sensor (i.e. Alarm4).

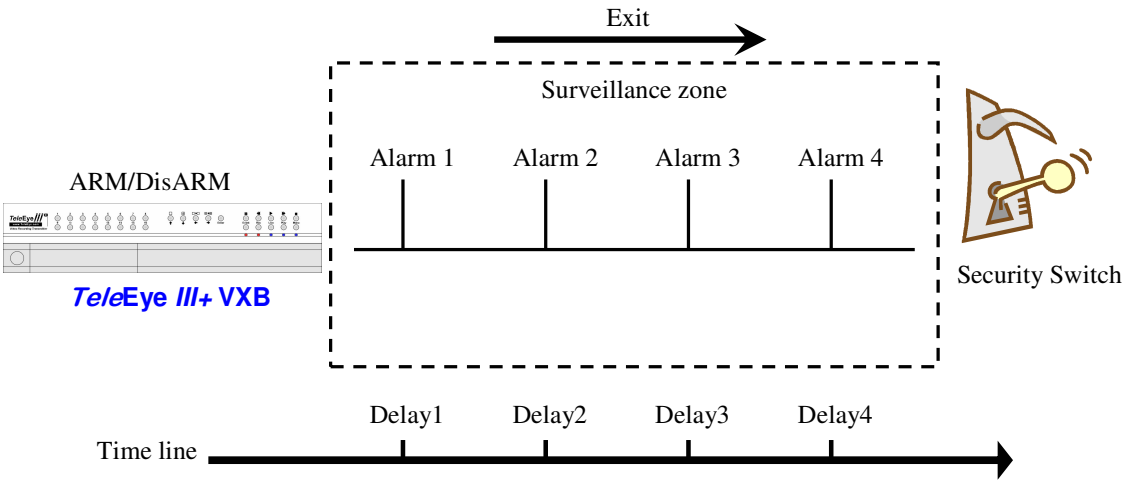
The detailed procedure is as below:

1) user turns off security switch
2) the alarm move to entry delay
3) the 1st trigger is made by Alarm4 (i.e. user enter the surveillance zone and the delay time begin)
4) 2nd, 3rd and 4th trigger is made and each entry delay start respectively
5) user disarm the system for maintenance

For example, if the time for going from security switch to transmitter is about 8 minute, Delay1 should be equal to 8 minute, Delay2 should be equal to the time for going from security switch to Alarm2, and so on.

Glossary

Exit Delay



The exit delay is the period of time for leaving a surveillance zone without making wrong alarm (i.e. alarm1, alarm2, alarm3 and alarm4). The purpose is to let the user / installer have enough of time to leave the surveillance zone after the transmitter is armed. User / installer can set the delay time for each alarm.

For example, if the time for leaving the surveillance zone is about 8 minute, it should adjust the delay time so that Delay1 = leaving time between transmitter and Alarm1, Delay2 = leaving time between transmitter and Alarm2, Delay3 = leaving time between transmitter and Alarm3 and Delay4 = 8 minute. The alarm will be activated after the exit delay expires.

Fire Zone
This zone will trigger alarm no matter what state the system is, ie. armed or disarmed. It is suitable for installation of fire detectors

Arm/Disarm Input
An input to the transmitter for wiring an arm/disarm switch

Security Switch
An input to the transmitter for wiring a security switch. If the security switch is on, the system will be armed immediately, all exit delays will be terminated. If the security switch is off, the entry delays will start.

Power Failure Input
An input to the transmitter typically used for wiring the output signal pin from a UPS

System Tamper Input
An input to the transmitter for wiring a tamper switch of the external cabinet of the transmitter and its accessories.

Armed
If the system is armed, events detected from sensors will result in an alarm.

Disarmed
If the system is disarmed, events detected from sensors will not result in an alarm.

Glossary

APPENDIX E

SPECIFICATIONS

MODEL	VXB-4001	VXB-8002	VXB-16004	VXB-16008
VIDEO INPUT				
STANDARD	(P): PAL/CCIR, 625 lines, 50 fields per second (N): NTSC/EIA, 525 lines, 60 fields per second composite video, 1 V_{p-p}, BNC			
NO. OF CHANNELS	4	8	16	
RESOLUTION	Quality mode: 640X480, 320X240, 160X120 pixels Speed mode: 512x384, 256x192, 128x96 pixels			
VIDEO OUTPUT				
STANDARD	(P): PAL/CCIR, 625 lines, 50 fields per second (N): NTSC/EIA, 525 lines, 60 fields per second composite video, 1 V_{p-p}, BNC			
NO. OF CHANNELS	2			
STANDALONE OPERATION				
TYPE	System configuration, operation, audit trai			
COMMUNICATION				
NETWORK	RJ-45, 10/100Base-T Ethernet (auto-sensing)			
CONCURRENT USERS	6	10	18	
WEB SERVER	built-in web server			
***sure*LINK**	support Internet connection assigned with dynamic IP address			
MODEM PORT	RS-232C: DB-9 male, asynchronous, 8 data bits, 1 stop bit, no parity, 9.6k-115.2kbps, hardware flow control			
AUX PORT	RS-232C or RS-485 RS-232C: DB-9 female, asynchronous, 8 data bits, 1 stop bit, no parity, 2.4k-19.2kbps, hardware flow control RS-422/485: 2-way terminal, asynchronous, 5-8 data bits, 1-2 stop bits, no/odd/even parity, 2.4k-19.2kbps			
RECORDING				
MODE	manual, programmable, event-driven			
HD TYPE	IDE interface, removable			
HD SIZE	40GB, 80GB, 160GB selectable			
MAX. RECORDING RATE#	12.5/15fps	25/30fps	50/60fps	100/120fps
EVENT HANDLING				
EVENT TYPE	external alarm, video motion detection, video loss, recording full, system failure			
ACTION TYPE	buzzer, dial back, local recording, relay control, email notification			
EXTERNAL INPUTS	4x, or 3x + arm/disarm, NC/NO	8x, or 7x + arm/disarm, NC/NO	16x, or 15x + arm/disarm, NC/NO	

Specifications

RELAY SWITCH				
NO. OF CHANNELS	4			
MAX. RATING	24V AC, 1000mA			
POWER				
VOLTAGE	12V DC			
MAX. RATING	38W	40W	43W	49W
OPERATING ENVIRONMENT				
AMBIENT TEMPERATURE	5°C – 50°C			
RELATIVE HUMIDITY	<85% (no condensation)			
MECHANICAL DESIGN				
DIMENSION	360x345x95 (mmxmmxmm)			
WEIGHT	4.5 kg	4.5 kg	4.7 kg	5.3 kg

Specifications

Support BS8418

MODEL	VXB-4001	VXB-8002	VXB-16004	VXB-16008
VIDEO INPUT				
STANDARD	(P): PAL/CCIR, 625 lines, 50 fields per second (N): NTSC/EIA, 525 lines, 60 fields per second composite video, 1 V_{p-p}, BNC			
NO. OF CHANNELS	4	8	16	
RESOLUTION	Quality mode: 640X480, 320X240, 160X120 pixels Speed mode: 512x384, 256x192, 128x96 pixels			
VIDEO OUTPUT				
STANDARD	(P): PAL/CCIR, 625 lines, 50 fields per second (N): NTSC/EIA, 525 lines, 60 fields per second composite video, 1 V_{p-p}, BNC			
NO. OF CHANNELS	2			
STANDALONE OPERATION				
TYPE	System configuration, operation, audit trai			
COMMUNICATION				
NETWORK	RJ-45, 10/100Base-T Ethernet (auto-sensing)			
CONCURRENT USERS	6	10	18	
WEB SERVER	built-in web server			
***sure*LINK**	support Internet connection assigned with dynamic IP address			
MODEM PORT	RS-232C: DB-9 male, asynchronous, 8 data bits, 1 stop bit, no parity, 9.6k-115.2kbps, hardware flow control			
AUX PORT	RS-232C or RS-485 RS-232C: DB-9 female, asynchronous, 8 data bits, 1 stop bit, no parity, 2.4k-19.2kbps, hardware flow control RS-422/485: 2-way terminal, asynchronous, 5-8 data bits, 1-2 stop bits, no/odd/even parity, 2.4k-19.2kbps			
RECORDING				
MODE	manual, programmable, event-driven			
HD TYPE	IDE interface, removable			
HD SIZE	40GB, 80GB, 160GB. 250GB, selectable			
MAX. RECORDING RATE#	12.5/15fps	25/30fps	50/60fps	100/120fps
EVENT HANDLING				
EVENT TYPE	external alarm, video motion detection, video loss, recording full, system & power failure, system tamper			
ACTION TYPE	buzzer, dial back with authentication, local recording, relay control, email notification			
EXTERNAL INPUTS	4x NC/NO with tamper detection	8 x NC/NO with tamper detection	16 x NC/NO with tamper detection	
RELAY SWITCH				
NO. OF CHANNELS	4			
MAX. RATING	24V AC, 1000mA			

Specifications *(Support BS8418)*

POWER				
VOLTAGE	12V DC			
MAX. RATING	38W	40	43W	49W
OPERATING ENVIRONMENT				
AMBIENT TEMPERATURE	5°C – 50°C			
RELATIVE HUMIDITY	<85% (no condensation)			
MECHANICAL DESIGN				
DIMENSION	360x345x95 (mmxmmxmm)			
WEIGHT	4.5kg	4.5kg	4.7kg	5.3kg

Specifications *(Support BS8418)*